I. Potential References of Interest

A. Dialog

9/5/5 (Item 5 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0009158291 *Drawing available*
WPI Acc no: 1999-080584/199907
Related WPI Acc No: 1996-049047
XRPX Acc No: N1999-057991
Coordinate sensor for absolute optical position determination device - has microcomputer to determine position of writing element on paper surface by processing output signal from CCD detecting code printed on paper
Patent Assignee: SEKENDUR O F (SEKE-I)
Inventor: SEKENDUR O F

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5852434	A	19981222	US 1992862977	A	19920403	199907	B
			US 1995574117	A	19951218		

Priority Applications (no., kind, date): US 1992862977 A 19920403; US 1995574117 A 19951218

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 5852434	A	EN	11	7	C-I-P of application	US 1992862977
					C-I-P of patent	US 5477012

Alerting Abstract US A
The sensor has a CCD (13) to generate an output signal after detecting the code printed on a paper. A microcomputer **determines** the **position** of a retractable **writing** element (9) on the paper surface by processing the output signal from the CCD.
USE - For **determining position** and **movement** of pen/pencil on paper.
ADVANTAGE - Enables to scan and write on paper surface simultaneously. Provides original hard copy of input information. **Determines** absolute **position** of movable element precisely. Does not require special digitizing tablet and special transmitter.

Title Terms /Index Terms/Additional Words: COORDINATE; SENSE; ABSOLUTE; OPTICAL; POSITION; DETERMINE; DEVICE; MICROCOMPUTER; WRITING; ELEMENT; PAPER; SURFACE; PROCESS; OUTPUT; SIGNAL; CCD; DETECT; CODE; PRINT

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G08C-021/00			Main		"Version 7"
G09G-005/00			Secondary		"Version 7"

ECLA: G06F-003/03H3, G06F-003/033P2
US Classification, Current Main: 345-179000; Secondary: 178-018010, 178-018090, 178-019010
US Classification, Issued: 345179, 17818.01, 178180.09, 17819.01
File Segment: EngPI; EPI;
DWPI Class: T01; T04; W05; P85
Manual Codes (EPI/S-X): T01-C02B1H; T04-F02A5; T04-F04; W05-D01B

13/5/12 (Item 1 from file: 347) **Links**
Fulltext available through: Order File History
JAPIO

03430019 **Image available**
ELECTRONIC PEN AND HOLDER FOR THE SAME

Pub. No.: 03-092919 [JP 3092919 A]
Published: April 18, 1991 (19910418)
Inventor: IWATA SATOSHI
Applicant: FUJITSU LTD [000522] (A Japanese Company or Corporation), JP (Japan)
Application No.: 01-231006 [JP 89231006]
Filed: September 06, 1989 (19890906)
International Class: [5] G06F-003/03; G06K-011/18
JAPIO Class: 45.3 (INFORMATION PROCESSING -- Input Output Units)
JAPIO Keyword: R098 (ELECTRONIC MATERIALS -- **Charge** Transfer Elements, CCD & BBD); R131 (**INFORMATION** PROCESSING -- Microcomputers & Microprocessers)
Journal: Section: P, Section No. 1226, Vol. 15, No. 274, Pg. 102, July 11, 1991 (19910711)

ABSTRACT
PURPOSE: To electronically easily **record** the **handwriting** of a memo sheet by housing the plural pairs of sensors provided in an orthogonally axial direction and in the intermediate direction of the orthogonally axial direction, code conversion circuit to control the operation of the respective sensor pairs, to fetch the outputs of the sensors and to **convert** the hand- **writing** to a prescribed code, and storage device, which store the output of the code conversion circuit, in a case.

CONSTITUTION: In an **electronic pen** 5, the four pairs of the sensors are provided in the orghogonally axial direction and in the intermediate direction at least when they are observed from the upper direction of a core 1, and the respective sensors are constituted by combining light emitting elements and light receiving elements, for which plural elements are serially connected, for example. Concerning handwriting 7, the length of the handwriting is optically detected from reflected light by respective pairs 2-11 and 2-12, etc., of the sensors and fetched into the light receiving elements. Next, the output of the respective sensors are impressed to a code conversion circuit 3 and from the combination of the respective sensor outputs, the

direction and length of the **handwriting** are **calculated** concerning the character of the **handwriting** and **converted** to the code at every character. Converted code signals are next stored in a storage device 4. Thus, the handwriting of the memosheet can be electronically easily recorded.

10/3K/9 (Item 7 from file: 349) **Links**
Fulltext available through: Order File History
PCT FULLTEXT

00492193
SYSTEM FOR EDITING GRAPHICAL DATA BASED UPON RELATIVE TIME OF ENTRY
SYSTEME D'EDITION DE DONNEES GRAPHIQUES EN FONCTION DE L'HEURE RELATIVE DE SAISIE

Patent Applicant/Patent Assignee:

1. **HEWLETT-PACKARD COMPANY**;
; ;

	Country	Number	Kind	Date
Patent	WO	9923545	A1	19990514
Application	WO	98US22874		19981028
Priorities	US	97962489		19971031

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English
Filing Language:
Fulltext word count: 11490

Claims:

...identify the transitions from the top page to the bottom page, and back again; the **captured** electronic data consequently indicates **spatially**-overlapping data all on a single page. FIG. 12 shows a screen of a "splicing...With reference to FIG. 1, a digital electronic clipboard 11 is illustrated as including a **digitizer** section 13, which supports a top page 14 (e.g., blank paper or a preprinted document having data entry fields), a stylus 15 for writing on pages and generating **electronic stylus** data, and a tether 17, which physically and electronically connects the stylus to the clipboard ... ...electronics which generate signals representing location of the writing tip 19 with respect to the **digitizer** section 13. The stylus 15 may further include a light emitting diode ("LED") 35, which... ...bar code, in this-IISUBSTITUTE SHEET (RULE 26)PCT[US98/22874 implementation, would contain **information** about **form** "type," e.g., "**invoice**," as well as a unique serial **code**(**form** "instance,,) which distinguishes a completed hardcopy "**invoice**" from other "**invoices**." It should be recognized that the clipboard 11 need not be used only with pages having preprinted **information** (e.g., "**invoice**") and that blank pages may be used as well and identified by a bar code...the context of the present invention 'page change commands and data from the stylus and **digitizer** are integrated into a single, sequenced data stream, which represents both user commands and stylus...

14/3K/4 (Item 1 from file: 349) **Links**
Fulltext available through: Order File History
PCT FULLTEXT

00492194
DATA RECORDING APPARATUS
ENREGISTREUR DE DONNEES

Patent Applicant/Patent Assignee:

2. **HEWLETT-PACKARD COMPANY**;
; ;

	Country	Number	Kind	Date
Patent	WO	9923546	A1	19990514
Application	WO	98US22946		19981028
Priorities	US	97961691		19971031

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English
Filing Language:
Fulltext word count: 9490

Claims:

...With reference to FIG. 1, a digital electronic clipboard 11 is illustrated as including a **digitizer** section 13, which supports a too page 14 (e.g., blank paper or a preprinted document having data entry fields), a stylus 15 for writing on pages and generating **electronic stylus** data, and a tether 17, which physically and electronically connects the stylus to the clipboard...upon each page each time the user newly writes on the page having the bar **code**. The bar **code**, in this implementation, would contain **information** about **form**1ft]erpe,11 e.g., "**invoice**," as well as a unique serial **code**(**form** "instance") which distinguishes a completed hardcopy "**invoice**" from other " **invoices**." It should be recognized that the clipboard !I need not be used only with pages having preprinted **information** (e.g.," **invoice**") and that blank pages may be used as well and SUBSTITUTE SHEET (RULE 26)In the context of the present invention, page change commands and data from the stylus and **digitizer** are integrated into a single, sequenced data stream, which represents both user commands and stylus...

14/3K/5 (Item 2 from file: 349) **Links**
Fulltext available through: Order File History
PCT FULLTEXT

00422200
METHODS AND DEVICE FOR VALIDATING A PERSONAL SIGNATURE

PROCEDES ET DISPOSITIF SERVANT A VALIDER UNE SIGNATURE PERSONNELLE

Patent Applicant/Patent Assignee:

3. **McCONNELL Gary A**;
; ;

4. **LEISTAD Geirr I**;
; ;

	Country	Number	Kind	Date
Patent	WO	9812661	A1	19980326
Application	WO	97NO254		19970918
Priorities	NO	96393		19960918

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English
Filing Language:
Fulltext word count: 14338

Claims:

...may be regarded as representing the movement of a virtual writing tip on a virtual **writing** surface. As the 3-**axis movement** detector and the **writing** tip are provided spaced apart in the writing device, preferably by the detector means being... ...is the x,y position of the virtual writing tip referred to the chosen 3-**axis** frame of reference for the **movement** detector which is of interest. The point of origin in the 3-axis frame of...for criminal purposes, shall have an accepted validation result. There shall now be described an **electronic writing** device, particularly an **electronic pen** for use with the methods according to the invention forregistration of a personal hand-written signature on an **electronic writing** tablet. For instance, the writing tablet as mentioned is a pressure sensitive display device such... ...means are known in the art and shall hence not be further discussed herein. This **electronic writing** device or the **electronic pen** is shown in fig. 5a and exploded in its separate components in fig. 5b... ...provided a writing tip 2 which when writing contacts the underlying surface, i.e. the **electronic writing** tablet. Spaced apart from the writing tip 2 and connected to the body part I...in any case appear as an optional feature of the present invention. The use of **electronic pen** according to the invention for registration of a signature is illustrated in fig. 6. The...providing a not shown miniature radio transmitter in connection with the detector 3 in the **electronic pen** 1. In order to further increase the security in connection with the validation of a... ...signature it may be expedient for a system operator to have a confirmation that the **electronic pen** employed is approved for use, for instance in a particular location or by a particular... ...that by means of the methods according to the present invention and by using the **electronic writing** device it is possible to distinguish between the persons, even when a relatively simple sign...who has received the effects. The present invention may also be used in banking and **payment systems** wherein a secure identification of the customer is required. As it is common that the... ...personal signature shall not be regarded as undue or as an infringement. In banking and **payment systems** the writing device with an accompanying pressure sensitive **display** device may for instance be provided at the counter and the customer signs for the... ...in a data processing device with the database MDB provided in connection with banking or **payment system** being compared with the signature which is to be validated. There is nothing to prevent... ...in the data communication system, has connected an electronic and writing

device and an accompanying **electronic writing** tablet in the form of a pressure sensitive display device for registration of the signature...

10/3,K/3 (Item 2 from file: 15) **Links**
ABI/Inform(R)

00495848 90-21605
The Pen: Computings Next Big Leap

Buell, Barbara
Business Week n3159 (Industrial/Technology Edition) pp: 128-129
May 14, 1990
ISSN: 0739-8395 **Journal Code:** BWE

Abstract:

...soon be among the first to use a new class of personal computers that read **handwriting** and enable nonoffice employees to **record** information by filling in numbers and checking off boxes on a form. The promise of...

...technology to conductors and millions of other blue-collar workers through the use of the **electronic pen** is making handwriting recognition the latest buzzword around Silicon Valley. Already, some $50 million in...

...picks up voltage that is conducted by a special coating on the screen. A microprocessor **measures** exactly where, and in what order, each pen **stroke** is made. Then, the microchip translates the data into digitized characters, allowing the computer to...

...block-printed text and numbers with 95% accuracy. Early forecasts indicate sales of pen-based **computers** could reach $3 **billion** by 2000. For Japan, the technology is especially promising because it can accommodate handwritten Kanji...

10/3,K/4 (Item 1 from file: 16) **Links**
Gale Group PROMT(R)

04805086 **Supplier Number:** 47070301 **(USE FORMAT 7 FOR FULLTEXT)**

Paperless Signature: PenOp adds secure handwritten signatures to Microsoft Word
EDGE: Work-Group Computing Report , p N/A
Jan 27 , 1997
Language: English **Record Type:** Fulltext
Document Type: Newsletter ; Trade
Word Count: 504

Supplier Number: (USE FORMAT 7 FOR FULLTEXT)

Text:

...have the capability to directly sign electronic documents legally and securely using a low-cost **digital pen** and **digitizer** linked to their personal computer. Using a combination of biometrics and cryptography, PenOp creates a...

...PenOp/View, a configuration that allows users to view signatures and check that their associated **documents** have not been altered since signing is available free-of-**charge** at the PenOp Web site (http://www.penop.com). To sign documents, a PenOp/Sign...

...a price of $100 per CPU. PenOp/Sign supports a variety of off-the-shelf **digitizers**, and can be shared by other PenOp document components, including plug-ins for Netscape Navigator...

...a privately held software company. PenOp software enables legal execution of electronic documents. The software **captures** the signing **event** using an inexpensive **digitizer** and links it to the electronic document creating a record designed to be the legal...

B. Additional Resources Searched

Financial Times FullText (via ProQuest): No relevant results.

Internet & Personal Computing Abstracts (via EBSCOhost):

Record: 1
Title: Apple pencils in pen-Mac plans: first model limited to large sites.
Authors: Rothenberg, Matthew
Source: MacWeek; April 26, 1993, Vol. 7 Issue 17, p1, 2p
Document Type: Article
Subject Terms: PEN-based computers
MACINTOSH (Computer)
Geographic Terms: UNITED States
Author-Supplied Keywords: Macintosh Duo
Company/Entity: Apple Computer Inc.
Abstract: Reports that Apple will begin issuing prototypes of a pen-based Macintosh Duo designed for sale directly to large sites, and intended specifically for vertical markets. The pen device is based on a 33-MHz 68030 processor, it can be equipped with up to 32MB of RAM, and it can be docked for desktop use, though its keyboard will be detachable. The first model reportedly will use a ``digital-ink'' system storing pen strokes as bit-mapped graphics, but will not support handwriting recognition. Notes that third-party

developers will have to customize their software to include gesture-based commands in the interfaces, and the new portable will be the first Macintosh model not sold retail. Includes one illustration.
ISSN:0892-8118
Accession Number:IPCA0346094
Database: Internet and Personal Computing AbstractsBack

II. Inventor Search Results from Dialog

9/5/2 (Item 2 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0010490436 *Drawing available*
WPI Acc no: 2001-091019/200110
Related WPI Acc No: 2001-031672; 2001-031997; 2001-032072; 2001-032073; 2001-032074; 2001-041060; 2001-041078; 2001-049870; 2001-049889; 2001-061319; 2001-061375; 2001-061376; 2001-061377; 2001-061378; 2001-061379; 2001-061380; 2001-061383; 2001-061384; 2001-061385; 2001-061386; 2001-061387; 2001-061388; 2001-070849; 2001-070855; 2001-070886; 2001-070887; 2001-070889; 2001-070890; 2001-080332; 2001-080380; 2001-080391; 2001-090989; 2001-091017; 2001-091018; 2001-091020; 2001-102299; 2001-102300; 2001-102301; 2001-102302; 2001-112086; 2001-146741; 2001-146742; 2001-146761; 2001-159228; 2001-182391; 2001-202518; 2001-244051; 2001-244052; 2001-244069; 2001-244070; 2001-257289; 2001-257290; 2001-257291; 2001-257292; 2001-257293; 2001-257336; 2001-257337; 2001-257338; 2001-257339; 2001-257341; 2001-257342; 2001-257343; 2001-257344; 2001-257345; 2001-265579; 2001-290116; 2001-328123; 2001-328124; 2001-335483; 2001-335752; 2001-342954; 2001-354478; 2001-354825; 2001-355202; 2001-367045; 2001-374344; 2001-380751; 2001-380752; 2001-380760; 2001-381052; 2001-389385; 2001-389410; 2001-389418; 2001-397607; 2001-417832; 2001-425321; 2001-425322; 2001-425329; 2001-425338; 2001-425352; 2001-432690; 2001-464464; 2001-464465; 2001-464466; 2001-464473; 2001-464474; 2001-521241; 2001-521256; 2001-522897; 2001-541233; 2001-564790; 2001-564791; 2001-564792; 2001-564793; 2001-580761; 2001-580897; 2001-616166; 2001-624361; 2001-625734; 2001-625756; 2001-662726; 2002-025666; 2002-062505; 2002-062506; 2002-066758; 2002-066759; 2002-074883; 2002-074884; 2002-074885; 2002-074886; 2002-074887; 2002-074888; 2002-106159; 2002-113865; 2002-113866; 2002-113867; 2002-130444; 2002-130446; 2002-147314; 2002-147316; 2002-188175; 2002-226131; 2002-315396; 2002-351585; 2002-381540; 2002-382643; 2002-382644; 2002-392685; 2002-392690; 2002-392764; 2002-415987; 2002-425623; 2002-454957; 2002-463660; 2002-519457; 2002-527657; 2002-528431; 2002-535508; 2002-588872; 2002-636105; 2002-665882; 2003-119777; 2003-417398; 2003-456761; 2003-531707; 2003-531934; 2003-532083; 2003-597030; 2003-800919; 2003-842439; 2003-844503; 2003-896976; 2004-096199; 2004-096457; 2004-179603; 2004-179637; 2004-179638; 2004-213619; 2004-213622; 2004-213623; 2004-213624; 2004-213625; 2004-224907; 2004-224908; 2004-246512; 2004-314854; 2004-338582; 2004-338583; 2004-340152; 2004-364418; 2004-373010; 2004-374395; 2004-376459; 2004-376461; 2004-376462; 2004-376463; 2004-376464; 2004-376465; 2004-376466; 2004-376471; 2004-376472; 2004-376473; 2004-386954; 2004-390759; 2004-390762; 2004-390763; 2004-390764; 2004-409750; 2004-430717; 2004-430718; 2004-438776; 2004-467137; 2004-467138; 2004-507920; 2004-515838; 2004-623797; 2004-624309; 2004-649306; 2004-652722; 2004-662642; 2004-662643; 2004-662644; 2004-674402; 2004-674978; 2004-697395; 2004-698508; 2004-698512; 2004-700414; 2004-707312; 2004-727587; 2004-727588; 2004-727593; 2004-727594; 2004-727595; 2004-727597; 2004-727598; 2004-727600; 2004-736133; 2004-736179; 2004-736191; 2004-736196; 2004-736197; 2004-745997; 2004-745999; 2004-746000; 2004-746374; 2004-746424; 2004-746433; 2004-746436; 2004-748872; 2004-756118; 2004-756126; 2004-758108; 2004-758112; 2004-765022; 2004-766540; 2004-766546; 2004-775391; 2004-781967; 2004-782612; 2004-793958; 2004-793966; 2004-794394; 2004-812670; 2004-812671; 2004-812672; 2004-820370; 2004-820372; 2004-820625; 2004-832765; 2005-009864; 2005-010012; 2005-010023; 2005-028593; 2005-

029594; 2005-037728; 2005-038276; 2005-040624; 2005-056211; 2005-056779; 2005-057032; 2005-063652; 2005-066888; 2005-072406; 2005-079163; 2005-080067; 2005-080181; 2005-089308; 2005-089309; 2005-098822; 2005-100321; 2005-100322; 2005-100323; 2005-111017; 2005-119778; 2005-130290; 2005-140701; 2005-240690; 2005-241059; 2005-252535; 2005-261053; 2005-261065; 2005-294676; 2005-294678; 2005-303946; 2005-304264; 2005-321817; 2005-331833; 2005-344841; 2005-371286; 2005-371288; 2005-371289; 2005-432636; 2005-432637; 2005-459014; 2005-459015; 2005-495204; 2005-496003; 2005-496011; 2005-496017; 2005-510995; 2005-511486; 2005-511487; 2005-540429; 2005-540438; 2005-540514; 2005-540528; 2005-540540; 2005-540541; 2005-540544; 2005-540545; 2005-540551; 2005-540812; 2005-541067; 2005-551780; 2005-551781; 2005-551820; 2005-551821; 2005-551826; 2005-551829; 2005-551830; 2005-551831; 2005-552042; 2005-553248; 2005-553553; 2005-553554; 2005-555462; 2005-561590; 2005-569237; 2005-571174; 2005-628549; 2005-637949; 2005-647777; 2005-656376; 2005-656411; 2005-673790; 2005-701514; 2005-711259; 2005-723381; 2005-723386; 2005-723393; 2005-733634; 2005-757060; 2005-766707; 2005-766837; 2005-793656; 2005-793712; 2005-794488; 2005-808544; 2006-009484; 2006-036108; 2006-036166; 2006-036902; 2006-036943; 2006-036944; 2006-036945; 2006-045183; 2006-045883; 2006-045887; 2006-088441; 2006-097674; 2006-107412; 2006-107911; 2006-108882; 2006-115544; 2006-133247; 2006-147965; 2006-153956; 2006-162918; 2006-162945; 2006-162946; 2006-163027; 2006-163689; 2006-180969; 2006-181616; 2006-190830; 2006-215011; 2006-260457; 2006-261351; 2006-261354; 2006-291788; 2006-340988; 2006-341035; 2006-421936; 2006-432229; 2006-453485; 2006-576278; 2006-745143; 2006-745151; 2006-754281; 2006-765118; 2007-015869; 2007-024291; 2007-052961; 2007-053840; 2007-070878; 2007-089585; 2007-130828; 2007-137525; 2007-170981; 2007-171208; 2007-197879; 2007-238988; 2007-252345; 2007-323858; 2007-351604; 2007-371218; 2007-371722; 2007-372089; 2007-384758; 2007-397079; 2007-432448; 2007-492370; 2007-523033; 2007-531409; 2007-557915; 2007-558052; 2007-559936; 2007-570362; 2007-598890; 2007-599126; 2007-611348; 2007-611465; 2007-622660; 2007-634185; 2007-634195; 2007-636431; 2007-636475; 2007-648651; 2007-659635; 2007-660822; 2007-673055; 2007-688353; 2007-751045; 2007-751145; 2007-761769; 2007-775667; 2007-783997; 2007-795305; 2007-803677; 2007-815029; 2007-844640; 2007-846466; 2007-871512; 2007-887309; 2008-A15935; 2008-A16541; 2008-A31649; 2008-A32081; 2008-A32843; 2008-A93864; 2008-A93950; 2008-A95173; 2008-B37435; 2008-B38494; 2008-B49917; 2008-B50340; 2008-B59681; 2008-B59838; 2008-B60011; 2008-D80999; 2008-E23263; 2008-E47296; 2008-E61502; 2008-E70505; 2008-E70576; 2008-E82417; 2008-E82422; 2008-E82812; 2008-F30852; 2008-F30874; 2008-F30878; 2008-F30959; 2008-F31275; 2008-F31339; 2008-F31354; 2008-F31485; 2008-F32025; 2008-F33562; 2008-F33832; 2008-F48287; 2008-F83820; 2008-G50568; 2008-G82955; 2008-G97858; 2008-H70729; 2008-H90005; 2008-J02574; 2008-J02875; 2008-J71355; 2008-J81270; 2008-J82016; 2008-J83295; 2008-J83296; 2008-J83297; 2008-K24535; 2008-K39891; 2008-K90725; 2008-L84466; 2008-L85179; 2008-M00025; 2008-M00247; 2008-M02286; 2008-M48310; 2008-M48311; 2008-M61283; 2008-M78449; 2008-M78482; 2008-M78483; 2008-M78484; 2008-M79150; 2008-M99395; 2008-N00383; 2008-N48212; 2008-N50104; 2008-N82927; 2008-N83337; 2008-O17197; 2009-A26407; 2009-A28592; 2009-A29945; 2009-A72602; 2009-A73936; 2009-A88880; 2009-A97260; 2009-B23058; 2002-416881; 2009-B08255; 2009-B23056; 2009-B31809; 2009-E17114; 2009-E29901; 2009-E30793; 2009-E31005; 2009-E94023; 2009-F00095; 2009-F53289; 2009-G16162; 2009-G21633

XRPX Acc No: N2001-068991

Online bill payment method involves receiving bill with coded data and sensing identity of bill using sensing device positioned relative to bill, based on parameter related to requested payment

Patent Assignee: KIA S (KIAS-I); LAPSTUN J A (LAPS-I); LAPSTUN P (LAPS-I); PAUL L (PAUL-I); SILVERBROOK K (SILV-I); SILVERBROOK RES PTY LTD (SILV-N); WALMSLEY S R (WALM-I)

Inventor: HOLLINS M J; JACQUELINE A L; KIA S; LAPSTUN J; LAPSTUN J A; LAPSTUN P; PAUL L; PICKUP C J; SIEMON R W; SILVBRUKE K; SILVERBROOK K; WALMSLEY S R; KING T A

Patent Family (73 patents, 92 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2000072241	A1	20001130	WO 2000AU518	A	20000524	200110	B
AU 200047257	A	20001212	AU 200047257	A	20000524	200115	E
BR 200010862	A	20020702	BR 200010862	A	20000524	200252	E
			WO 2000AU518	A	20000524		
KR 2002011415	A	20020208	KR 2001714668	A	20011116	200255	E
EP 1242969	A1	20020925	EP 2000929034	A	20000524	200271	E
			WO 2000AU518	A	20000524		
KR 2002033179	A	20020504	KR 2002703552	A	20020316	200271	E
KR 2002033180	A	20020504	KR 2002703554	A	20020316	200271	E
KR 2002033812	A	20020507	KR 2002703555	A	20020316	200271	E
CN 1363073	A	20020807	CN 2000807888	A	20000524	200304	E
KR 2002073378	A	20020926	KR 2001714954	A	20011123	200311	E
US 20030093376	A1	20030515	US 2000575197	A	20000523	200339	E
			US 2002291481	A	20021112		
US 20030093377	A1	20030515	US 2000575197	A	20000523	200339	E
			US 2002291509	A	20021112		
US 20030093378	A1	20030515	US 2000575197	A	20000523	200339	E
			US 2002291523	A	20021112		
AU 762210	B	20030619	AU 200047257	A	20000524	200351	E
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Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
WO 2000072241	A1	EN	97	54	
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW				
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW				
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BR 200010862	A	PT			PCT Application	WO 2000AU518
					Based on OPI patent	WO 2000072241
EP 1242969	A1	EN			PCT Application	WO 2000AU518
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AU 762210	B	EN			Previously issued patent	AU 200047257
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MX 2001012068	A1	ES			PCT Application	WO 2000AU518
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AU 2003248035	A1	EN			Division of patent	AU 762210
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AU 2004220742	A1	EN			Division of application	AU 2003248034
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IL 146606	A	EN			Based on OPI patent	WO 2000072241
KR 645014	B1	KO			PCT Application	WO 2000AU1108
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KR 645017	B1	KO			PCT Application	WO 2000AU1109
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SG 146421	A1	EN				
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Alerting Abstract WO A1
NOVELTY - **Bill** (502) containing **coded data** which reveals identity of **bill** along with requested **payment** is received by a computer system. A sensing device placed in an operative **position relative** to the **bill**, identifies the **bill** by using **coded data** and senses **data** on the **bill**, based on action and option parameters of requested payment, such as card holder name, card type.
DESCRIPTION - An INDEPENDENT CLAIM is also included for system which enables payment of bills.
USE - For online payment of bills through internet by working with help page networked computer system.
ADVANTAGE - Since online bill payment involves usage of pen and paper based computer interface system, printed information on paper is easier to read than on computer screen. Since paper used does not run on batteries, it can be read in bright light and is also robust. Since hand drawing and hand writing gives greater richness of expression than through a computer keyboard or mouse, printed information on paper is advantageous. Since signatures recorded on net page is automatically verified, e-commerce transactions are securely authorized. Since net page system is used along with microelectromechanical based inkjet printers, letter size glossy pages printed in full color on both sides is achieved.
DESCRIPTION OF DRAWINGS - The figure shows the schematic view online bill payment.
502 Bill

Title Terms /Index Terms/Additional Words: BILL; PAY; METHOD; RECEIVE; CODE; DATA; SENSE; IDENTIFY; DEVICE; POSITION; RELATIVE; BASED; PARAMETER ; RELATED; REQUEST

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-017/30; G06F-017/40; G06F-017/60; G06F-003/03; G06K-011/18; G06K-019/06; G06K-019/10			Main		"Version 7"
G06F-015/00; G06F-151/00; G06F-007/10; H03M-013/13			Secondary		"Version 7"
B41J-0002/475	A	I		R	20060101

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B41J-0029/00	A	I	F	B	20060101
B41J-0029/38	A	I		R	20060101
B41J-0003/00	A	I		R	20060101
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G06K-0009/62	C	I		R	20060101
G06K-0009/78	C	I		R	20060101
G06Q-0010/00	C	I		R	20060101
G06Q-0020/00	C	I		B	20060101
G06Q-0030/00	C	I	L	B	20060101
G06Q-0040/00	C	I		B	20060101
G06Q-0099/00	C	I		B	20060101
G06Q-0099/00	C	I	F	B	20060101
G06T-0001/00	C	I		R	20060101
G07F-0019/00	C	I		B	20060101
G08C-0021/00	C	I	L	B	20060101
G08C-0021/00	C	I		R	20060101
G09G-0005/00	C	I		R	20060101
H04L-0012/16	C	I		R	20060101
H04L-0012/58	C	I	F	R	20060101
H04L-0029/00	C	I		B	20060101
H04L-0009/00	C	N		B	20060101
H04L-0009/32	C	I	L	B	20060101
H04L-0009/32	C	I		R	20060101
H04M-0003/56	C	N	L	B	20060101
H04M-0003/56	C	I	L	B	20060101
H04N-0001/00	C	N	L	B	20060101
H04N-0001/047	C	I		R	20060101
H04N-0001/107	C	I		R	20060101
H04N-0007/15	C	N	L	B	20060101
H04N-0007/15	C	I	L	B	20060101
H04Q-0011/00	C	I		R	20060101
H04Q-0007/38	C	I	L	B	20060101
B41J-0002/475	C	I			20060101
B41J-0029/00	C	I			20060101
B41J-0029/38	C	I			20060101

G06F-0015/00	C	I			20060101
G06F-0017/00	C	I			20060101
G06F-0019/00	C	I			20060101
G06F-0021/00	C	I			20060101
G06F-0003/03	C	I			20060101
G06F-0003/033	C	I			20060101
G06F-0003/041	C	I			20060101
G06F-0003/12	C	I			20060101
G06K-0011/06	C	I			20060101
G06K-0017/00	C	I			20060101
G06K-0009/18	C	I			20060101
G06K-0009/62	C	I			20060101
G06Q-0010/00	C	I			20060101
G06Q-0020/00	C	I			20060101
G06Q-0030/00	C	I			20060101
G06Q-0040/00	C	I			20060101
G06Q-0050/00	C	I			20060101
G06T-0001/00	C	I			20060101

ECLA: G06F-003/03H3, G06F-003/033P2, G06F-003/033P3, G06F-003/038L, G06F-003/042, G06F-003/048A3G, G06Q-010/00F, G06Q-020/00K3C, G06Q-030/00, G07F-017/26, H04L-029/06M4C, H04M-003/56M

US Classification, Current Main: 156-384000, 235-375000, 235-439000, 347-002000, 358-001150, 455-414100, 705-001000, 705-040000, 713-150000, 715-700000, 715-764000; Secondary: 235-435000, 235-472030, 283-113000, 345-179000, 345-180000, 358-001180, 358-473000, 382-101000, 382-188000, 382-206000, 382-287000, 382-306000, 382-314000, 382-317000, 382-321000, 709-206000, 715-221000, 715-255000, 715-508000, 715-764000, 715-765000

US Classification, Issued: 70540, 70540, 70540, 345764, 3581.15, 382314, 382317, 382321, 358473, 235472.03, 382188, 709206, 235375, 3472, 7051, 455414.1, 235439, 3581.15, 156384, 156384, 7051, 283113, 382101, 382287, 382709, 382206, 38051, 70562, 70567, 382115, 3581.18, 3581.15, 358478 , 358474, 358477, 358471, 17819.05, 17818.03, 17819.01, 345179, 713150, 235435, 345179, 345180, 382306, 70540, 70523, 70534, 70562, 70567, 3581.15, 382188, 715508, 715700, 715764, 715765, 715221, 715255, 3581.18, 70540

Japan National Classification FI Terms

FI Term	Facet	Rank	Type
G06F-015/00 330 B			
G06F-017/60	ZEC		
G06F-017/60 242			
G06F-017/60 402			
G06F-017/60 406			
G06F-017/60 414			

Japan National Classification F Terms

Theme	ViewPoint + Figure	Additional Code
5B049		
5B055		
5B085		
5B285		
5B285	AA01	
5B285	AA03	
5B285	AA04	
5B085	AE01	
5B085	AE08	
5B085	AE29	
5B285	BA03	
5B285	BA07	
5B285	CA41	
5B285	CA44	
5B285	CB15	
5B285	CB24	
5B285	CB41	
5B285	CB73	
5B285	DA05	

File Segment: EngPI; EPI;
DWPI Class: T01; T04; T05; P75; P85
Manual Codes (EPI/S-X): T01-J05A1; T04-A03; T05-C01

17/5/1 (Item 1 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0018943146 *Drawing available*
WPI Acc no: 2009-H05052/200929
Netpage pen for use with a netpage networked computer system has a force sensor photodiode that cooperates with the retraction mechanism to sense the force applied to the surface by the ink cartridge nib when the nib is extended
Patent Assignee: SILVERBROOK RES PTY LTD (SILV-N)
Inventor: **LAPSTUN P**; **SILVERBROOK K**

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20090095543	A1	20090416	US 2008341818	A	20081222	200929	B
			US 2007829936	A	20070729		
			US 2004948253	A	20040924		
			US 2002291469	A	20021112		
			US 2000575168	A	20000523		

Priority Applications (no., kind, date): AU 1999559 A 19990525; AU 19991312 A 19990630; AU 19991313 A 19990630

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20090095543	A1	EN	110	90	Continuation of application	US 2007829936
					Continuation of application	US 2004948253
					Continuation of application	US 2002291469
					Continuation of application	US 2000575168
					Continuation of patent	US 7277085
					Continuation of patent	US 6737591
					Continuation of patent	US 6797895

Alerting Abstract US A1

NOVELTY - A pen (101) has an image sensor (132) that senses some of the coded data when the pen is used to interact with the surface. An ink cartridge (118) has ink cartridge nib (119) that contacts the surface. A retraction mechanism moves the cartridge by sliding between retracted and extended positions. A force sensor photodiode (144) cooperates with the mechanism to sense the force applied to the surface by the nib when the nib is extended. A processor (145) generates indicating data using the sensed coded data. A radio frequency (RF) chip (133) communicates the indicating data to a computer system.

DESCRIPTION - The image sensor senses the coded data only when the force sensor detects that the nib is in contact with the paper substrate.

USE - **Netpage pen** for interacting with a paper substrate for use with a netpage networked computer system. Uses include but are not limited to digital exchange of drawings and handwriting, for on-line recognition of handwriting, and for on-line verification of signatures.

ADVANTAGE - The pen **determines** its **position** and orientation **relative** to the surface at 100 Hertz (Hz) to allow accurate handwriting recognition when the stylus nib or ink cartridge nib of the pen is in contact with a surface. It allows an interactive element on the page to be clicked by pressing with the pen nib, in order to request information from a network. The force can be captured as a continuous value to allow the full dynamics of a signature to be verified. The pen is wireless and transmits **digital ink** to the netpage printer via a short-range radio link. The transmitted **digital ink** is encrypted for privacy and security and packetized for efficient transmission, but is always flushed on a pen-up event to ensure timely handling in the printer.

DESCRIPTION OF DRAWINGS - The drawing shows a perspective exploded view of the **netpage pen**.

101 **Netpage pen**
118 Ink cartridge
119 Ink cartridge nib
133 RF chip
144 Force sensor photodiode
145 Processor

Title Terms /Index Terms/Additional Words: PEN; COMPUTER; SYSTEM; FORCE; SENSE; PHOTODIODE; COOPERATE; RETRACT; MECHANISM; APPLY; SURFACE; INK; CARTRIDGE; NIB; EXTEND

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-0003/033	A	I	F	B	20060101
G06F-0003/033	C	I		B	20060101

US Classification, Current Main: 178-019010
US Classification, Issued: 17819.01
File Segment: EPI;
DWPI Class: S02; T01; T04; U13
Manual Codes (EPI/S-X): S02-F03A; T01-C05A; T01-C07C3; T01-D01; T04-D07E; T04-F04; U13-A01

17/5/2 (Item 2 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0017046711 *Drawing available*
WPI Acc no: 2007-761769/200771
Related WPI Acc No: 2001-031672; 2001-031997; 2001-032072; 2001-032073; 2001-032074; 2001-041060; 2001-041078; 2001-049870; 2001-049889; 2001-061319; 2001-061375; 2001-061376; 2001-061377; 2001-061378; 2001-061379; 2001-061380; 2001-061383; 2001-061384; 2001-061385; 2001-061386; 2001-061387; 2001-061388; 2001-070849; 2001-070855; 2001-070886; 2001-070887; 2001-070889; 2001-070890; 2001-080332; 2001-080380; 2001-080391; 2001-090989; 2001-091017; 2001-091018; 2001-091019; 2001-091020; 2001-102299; 2001-102300; 2001-102301; 2001-102302; 2001-112086; 2001-146741; 2001-146742; 2001-146761; 2001-159228; 2001-182391; 2001-202518; 2001-244051; 2001-244052; 2001-244069; 2001-244070; 2001-257289; 2001-257290; 2001-257291; 2001-257292; 2001-257293; 2001-257336; 2001-257337; 2001-257338; 2001-257339; 2001-257341; 2001-257342; 2001-257343; 2001-257344; 2001-257345; 2001-265579; 2001-290116; 2001-328123; 2001-328124; 2001-335483; 2001-335752; 2001-342954; 2001-354478; 2001-354825; 2001-355202; 2001-367045; 2001-374344; 2001-380751; 2001-380752; 2001-380760; 2001-381052; 2001-389385; 2001-389410; 2001-389418; 2001-397607; 2001-417832; 2001-425321; 2001-425322; 2001-425329; 2001-425338; 2001-425352; 2001-432690; 2001-464464; 2001-464465; 2001-464466; 2001-464473; 2001-464474; 2001-521241; 2001-521256; 2001-522897; 2001-541233; 2001-564790; 2001-564791; 2001-564792; 2001-564793; 2001-580761; 2001-580897; 2001-616166; 2001-624361; 2001-625734; 2001-625756; 2001-662726; 2002-025666; 2002-062505; 2002-062506; 2002-066758; 2002-066759; 2002-074883; 2002-074884; 2002-074885; 2002-074886; 2002-074887; 2002-074888; 2002-106159; 2002-113865; 2002-113866; 2002-113867; 2002-130444; 2002-130446; 2002-147314; 2002-147316; 2002-188175; 2002-226131; 2002-315396; 2002-351585; 2002-381540; 2002-382643; 2002-382644; 2002-392685; 2002-392690; 2002-392764; 2002-415987; 2002-425623; 2002-454957; 2002-463660; 2002-519457; 2002-527657; 2002-528431; 2002-535508; 2002-588872; 2002-636105; 2002-665882; 2003-119777; 2003-417398; 2003-456761; 2003-531707; 2003-531934; 2003-532083; 2003-597030; 2003-800919; 2003-842439; 2003-844503; 2003-896976; 2004-096199; 2004-096457; 2004-179603; 2004-179637; 2004-179638; 2004-213619; 2004-213622; 2004-213623; 2004-213624; 2004-213625; 2004-

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2008-M78483; 2008-M78484; 2008-M79150; 2008-M99395; 2008-N00383; 2008-N48212; 2008-N50104; 2008-N82927; 2008-N83337; 2008-O17197; 2009-A26407; 2009-A28592; 2009-A29945; 2009-A72602; 2009-A73936; 2009-A88880

Electronic device`s e.g. kitchen appliance, controlling method for e.g. home, involves receiving digital ink in form of positions representing sensor device`s movement across base that is provided with position-coding pattern

Patent Assignee: SILVERBROOK RES PTY LTD (SILV-N)

Inventor: **LAPSTUN J A**; **LAPSTUN P**; **SILVERBROOK K**

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20070233914	A1	20071004	US 2000693647	A	20001020	200771	B
			US 2006454902	A	20060619		
			US 2007756628	A	20070601		

Priority Applications (no., kind, date): AU 19994392 A 19991201

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20070233914	A1	EN	42	30	Continuation of application	US 2000693647
					Continuation of application	US 2006454902
					Continuation of patent	US 7131058

Alerting Abstract US A1

NOVELTY - The method involves receiving **digital ink** in the form of positions representing a sensor device`s movement across a base that is provided with a position-coding pattern. A subarea of the position-coding pattern and a command for the electronic device are determined, based on the **digital ink**. An address for the electronic device is determined. The electronic device is controlled by sending the command to the address. The **digital ink** is partly converted into a character coded format for identifying the command.

DESCRIPTION - An INDEPENDENT CLAIM is also included for a system for controlling an electronic device, comprising a computer system.

USE - Used for controlling an electronic device such as office equipment, audio and video equipment, kitchen appliance, and heating and cooling system, through a computing system, in a home and office.

ADVANTAGE - The method prevents a user without a required authority to operate a remote control to view rated channels or broadcasts. The method can remotely control the electronic device either through a network interface or an infrared interface. The method can completely separate a user interface to the device from the device itself.

DESCRIPTION OF DRAWINGS - The drawing shows a schematic view of an interaction between a **netpage pen**, a netpage printer, a netpage server and a netpage application server.

1 Printed netpage

9 Short-range radio link

101 **Netpage pen**

Title Terms /Index Terms/Additional Words: ELECTRONIC; DEVICE; KITCHEN; APPLIANCE; CONTROL; METHOD; HOME; RECEIVE; DIGITAL; INK; FORM; POSITION; REPRESENT; SENSE; MOVEMENT; BASE; CODE; PATTERN

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-0003/033	A	I	F	B	20060101
G06F-0003/033	C	I	F	B	20060101

US Classification, Current Main: 710-073000
US Classification, Issued: 71073
File Segment: EPI;
DWPI Class: T01
Manual Codes (EPI/S-X): T01-J08A1

17/5/3 (Item 3 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0015779592 *Drawing available*
WPI Acc no: 2006-340988/200635
Related WPI Acc No: 2001-031672; 2001-031997; 2001-032072; 2001-032073; 2001-032074; 2001-041060; 2001-041078; 2001-049870; 2001-049889; 2001-061319; 2001-061375; 2001-061376; 2001-061377; 2001-061378; 2001-061379; 2001-061380; 2001-061383; 2001-061384; 2001-061385; 2001-061386; 2001-061387; 2001-061388; 2001-070849; 2001-070855; 2001-070886; 2001-070887; 2001-070889; 2001-070890; 2001-080332; 2001-080380; 2001-080391; 2001-090989; 2001-091017; 2001-091018; 2001-091019; 2001-091020; 2001-102299; 2001-102300; 2001-102301; 2001-102302; 2001-112086; 2001-146741; 2001-146742; 2001-146761; 2001-159228; 2001-182391; 2001-202518; 2001-244051; 2001-244052; 2001-244069; 2001-244070; 2001-257289; 2001-257290; 2001-257291; 2001-257292; 2001-257293; 2001-257336; 2001-257337; 2001-257338; 2001-257339; 2001-257341; 2001-257342; 2001-257343; 2001-257344; 2001-257345; 2001-265579; 2001-290116; 2001-328123; 2001-328124; 2001-335483; 2001-335752; 2001-342954; 2001-354478; 2001-354825; 2001-355202; 2001-367045; 2001-374344; 2001-380751; 2001-380752; 2001-380760; 2001-381052; 2001-389385; 2001-389410; 2001-389418; 2001-397607; 2001-417832; 2001-425321; 2001-425322; 2001-425329; 2001-425338; 2001-425352; 2001-432690; 2001-464464; 2001-464465; 2001-464466; 2001-464473; 2001-464474; 2001-521241; 2001-521256; 2001-522897; 2001-541233; 2001-564790; 2001-564791; 2001-564792; 2001-564793; 2001-580761; 2001-580897; 2001-616166; 2001-624361; 2001-625734; 2001-625756; 2001-662726; 2002-025666; 2002-062505; 2002-062506; 2002-066758; 2002-066759; 2002-074883; 2002-074884; 2002-074885; 2002-074886; 2002-074887; 2002-074888; 2002-106159; 2002-113865; 2002-113866; 2002-113867; 2002-130444; 2002-130446; 2002-147314; 2002-147316; 2002-188175; 2002-226131; 2002-315396; 2002-351585; 2002-381540; 2002-382643; 2002-382644; 2002-392685; 2002-392690; 2002-392764; 2002-415987; 2002-425623; 2002-454957; 2002-463660; 2002-519457; 2002-527657; 2002-528431; 2002-535508; 2002-588872; 2002-636105; 2002-665882; 2003-119777; 2003-417398; 2003-456761; 2003-531707; 2003-531934; 2003-532083; 2003-597030; 2003-800919; 2003-842439; 2003-844503; 2003-896976; 2004-096199; 2004-096457; 2004-179603; 2004-179637; 2004-179638; 2004-213619; 2004-213622; 2004-213623; 2004-213624; 2004-213625; 2004-

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M78449; 2008-M78482; 2008-M78483; 2008-M78484; 2008-M79150; 2008-M99395; 2008-N00383; 2008-N48212; 2008-N50104; 2008-N82927; 2008-N83337; 2008-O17197; 2009-A26407; 2009-A28592; 2009-A29945; 2009-A72602; 2009-A73936; 2009-A88880; 2008-N33739

Hand-held pen for use with netpage printer, has controller chip that transfers stored ink data to computer system when remaining capacity of DRAM is not sufficient to store new data

Patent Assignee: SILVERBROOK RES PTY LTD (SILV-N)

Inventor: **LAPSTUN P**; **SILVERBROOK K**; **WALMSLEY S R**

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20060088230	A1	20060427	US 2000575174	A	20000523	200635	B
			US 2002291823	A	20021112		
			US 2005155556	A	20050620		
			US 2005298474	A	20051212		

Priority Applications (no., kind, date): AU 1999559 A 19990525; AU 19991313 A 19990630

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20060088230	A1	EN	72	50	Continuation of application	US 2000575174
					Continuation of application	US 2002291823
					Continuation of application	US 2005155556
					Continuation of patent	US 6870966
					Continuation of patent	US 6980704

Alerting Abstract US A1

NOVELTY - A pen controller chip (134) comprises a DRAM for storing several **digital ink** data. When the remaining capacity of DRAM is not sufficient to store the new **digital ink** data, the stored ink data is transferred to internal memory of a computer system.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

5. system for management of information for hand-held pen;
6. method for providing memory capacity for user of hand-held pen; and
7. method for memory management in hand-held pen.

USE - For use with netpage printer.

ADVANTAGE - Increase in transmission speed and memory requirement of pen during time, region and nib changes, are reduced.

DESCRIPTION OF DRAWINGS - The figure shows a schematic block diagram of the controller chip of **netpage pen**.

112 antenna
133 radio frequency chip
134 controller chip

Title Terms /Index Terms/Additional Words: HAND; HELD; PEN; PRINT; CONTROL; CHIP; TRANSFER; STORAGE; INK; DATA; COMPUTER; SYSTEM; REMAINING; CAPACITY; DRAM;

SUFFICIENT; NEW

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06K-0009/22	A	I	F	B	20060101
G06K-0009/22	C	I	L	B	20060101

ECLA: G06K-009/20R, G06K-009/22
US Classification, Current Main: 382-313000
US Classification, Issued: 382313
File Segment: EPI;
DWPI Class: T01; T04; W02; X27
Manual Codes (EPI/S-X): T01-C02B; T01-C05A1; T01-C07C3; T01-F05E; T01-H01B3; T04-F02B; T04-F04; T04-G10E; W02-G05B; X27-A02C

17/5/4 (Item 4 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0014752690 *Drawing available*
WPI Acc no: 2005-100321/200511
Related WPI Acc No: 2001-031672; 2001-031997; 2001-032072; 2001-032073; 2001-032074; 2001-041060; 2001-041078; 2001-049870; 2001-049889; 2001-061319; 2001-061375; 2001-061376; 2001-061377; 2001-061378; 2001-061379; 2001-061380; 2001-061383; 2001-061384; 2001-061385; 2001-061386; 2001-061387; 2001-061388; 2001-070849; 2001-070855; 2001-070886; 2001-070887; 2001-070889; 2001-070890; 2001-080332; 2001-080380; 2001-080391; 2001-090989; 2001-091017; 2001-091018; 2001-091019; 2001-091020; 2001-102299; 2001-102300; 2001-102301; 2001-102302; 2001-112086; 2001-146741; 2001-146742; 2001-146761; 2001-159228; 2001-182391; 2001-202518; 2001-244051; 2001-244052; 2001-244069; 2001-244070; 2001-257289; 2001-257290; 2001-257291; 2001-257292; 2001-257293; 2001-257336; 2001-257337; 2001-257338; 2001-257339; 2001-257341; 2001-257342; 2001-257343; 2001-257344; 2001-257345; 2001-265579; 2001-290116; 2001-328123; 2001-328124; 2001-335483; 2001-335752; 2001-342954; 2001-354478; 2001-354825; 2001-355202; 2001-367045; 2001-374344; 2001-380751; 2001-380752; 2001-380760; 2001-381052; 2001-389385; 2001-389410; 2001-389418; 2001-397607; 2001-417832; 2001-425321; 2001-425322; 2001-425329; 2001-425338; 2001-425352; 2001-432690; 2001-464464; 2001-464465; 2001-464466; 2001-464473; 2001-464474; 2001-521241; 2001-521256; 2001-522897; 2001-541233; 2001-564790; 2001-564791; 2001-564792; 2001-564793; 2001-580761; 2001-580897; 2001-616166; 2001-624361; 2001-625734; 2001-625756; 2001-662726; 2002-025666; 2002-062505; 2002-062506; 2002-066758; 2002-066759; 2002-074883; 2002-074884; 2002-074885; 2002-074886; 2002-074887; 2002-074888; 2002-106159; 2002-113865; 2002-113866; 2002-113867; 2002-130444; 2002-130446; 2002-147314; 2002-147316; 2002-188175; 2002-226131; 2002-315396; 2002-351585; 2002-381540; 2002-382643; 2002-382644; 2002-392685; 2002-392690; 2002-392764; 2002-415987; 2002-425623; 2002-454957; 2002-463660; 2002-519457; 2002-527657; 2002-528431; 2002-535508; 2002-588872; 2002-636105; 2002-665882; 2003-

119777; 2003-417398; 2003-456761; 2003-531707; 2003-531934; 2003-532083; 2003-597030; 2003-800919; 2003-842439; 2003-844503; 2003-896976; 2004-096199; 2004-096457; 2004-179603; 2004-179637; 2004-179638; 2004-213619; 2004-213622; 2004-213623; 2004-213624; 2004-213625; 2004-224907; 2004-224908; 2004-246512; 2004-314854; 2004-338582; 2004-338583; 2004-340152; 2004-364418; 2004-373010; 2004-374395; 2004-376459; 2004-376461; 2004-376462; 2004-376463; 2004-376464; 2004-376465; 2004-376466; 2004-376471; 2004-376472; 2004-376473; 2004-386954; 2004-390759; 2004-390762; 2004-390763; 2004-390764; 2004-409750; 2004-430717; 2004-430718; 2004-438776; 2004-467137; 2004-467138; 2004-507920; 2004-515838; 2004-623797; 2004-624309; 2004-649306; 2004-652722; 2004-662642; 2004-662643; 2004-662644; 2004-674402; 2004-674978; 2004-697395; 2004-698508; 2004-698512; 2004-700414; 2004-707312; 2004-727587; 2004-727588; 2004-727593; 2004-727594; 2004-727595; 2004-727597; 2004-727598; 2004-727600; 2004-736133; 2004-736179; 2004-736191; 2004-736196; 2004-736197; 2004-745997; 2004-745999; 2004-746000; 2004-746374; 2004-746424; 2004-746433; 2004-746436; 2004-748872; 2004-756118; 2004-756126; 2004-758108; 2004-758112; 2004-765022; 2004-766540; 2004-766546; 2004-775391; 2004-781967; 2004-782612; 2004-793958; 2004-793966; 2004-794394; 2004-812670; 2004-812671; 2004-812672; 2004-820370; 2004-820372; 2004-820625; 2004-832765; 2005-009864; 2005-010012; 2005-010023; 2005-028593; 2005-029594; 2005-037728; 2005-038276; 2005-040624; 2005-056211; 2005-056779; 2005-057032; 2005-063652; 2005-066888; 2005-072406; 2005-079163; 2005-080067; 2005-080181; 2005-089308; 2005-089309; 2005-098822; 2005-100322; 2005-100323; 2005-111017; 2005-119778; 2005-130290; 2005-140701; 2005-240690; 2005-241059; 2005-252535; 2005-261053; 2005-261065; 2005-294676; 2005-294678; 2005-303946; 2005-304264; 2005-321817; 2005-331833; 2005-344841; 2005-371286; 2005-371288; 2005-371289; 2005-432636; 2005-432637; 2005-459014; 2005-459015; 2005-495204; 2005-496003; 2005-496011; 2005-496017; 2005-510995; 2005-511486; 2005-511487; 2005-540429; 2005-540438; 2005-540514; 2005-540528; 2005-540540; 2005-540541; 2005-540544; 2005-540545; 2005-540551; 2005-540812; 2005-541067; 2005-551780; 2005-551781; 2005-551820; 2005-551821; 2005-551826; 2005-551829; 2005-551830; 2005-551831; 2005-552042; 2005-553248; 2005-553553; 2005-553554; 2005-555462; 2005-561590; 2005-569237; 2005-571174; 2005-628549; 2005-637949; 2005-647777; 2005-656376; 2005-656411; 2005-673790; 2005-701514; 2005-711259; 2005-723381; 2005-723386; 2005-723393; 2005-733634; 2005-757060; 2005-766707; 2005-766837; 2005-793656; 2005-793712; 2005-794488; 2005-808544; 2006-009484; 2006-036108; 2006-036166; 2006-036902; 2006-036943; 2006-036944; 2006-036945; 2006-045183; 2006-045883; 2006-045887; 2006-088441; 2006-097674; 2006-107412; 2006-107911; 2006-108882; 2006-115544; 2006-133247; 2006-147965; 2006-153956; 2006-162918; 2006-162945; 2006-162946; 2006-163027; 2006-163689; 2006-180969; 2006-181616; 2006-190830; 2006-215011; 2006-260457; 2006-261351; 2006-261354; 2006-291788; 2006-340988; 2006-341035; 2006-421936; 2006-432229; 2006-453485; 2006-576278; 2006-745143; 2006-745151; 2006-754281; 2006-765118; 2007-015869; 2007-024291; 2007-052961; 2007-053840; 2007-070878; 2007-089585; 2007-130828; 2007-137525; 2007-170981; 2007-171208; 2007-197879; 2007-238988; 2007-252345; 2007-323858; 2007-351604; 2007-371218; 2007-371722; 2007-372089; 2007-384758; 2007-397079; 2007-432448; 2007-492370; 2007-523033; 2007-531409; 2007-557915; 2007-558052; 2007-559936; 2007-570362; 2007-598890; 2007-599126; 2007-611348; 2007-611465; 2007-622660; 2007-634185; 2007-634195; 2007-636431; 2007-636475; 2007-648651; 2007-659635; 2007-660822; 2007-673055; 2007-688353; 2007-751045; 2007-751145; 2007-761769; 2007-775667; 2007-783997; 2007-795305; 2007-803677; 2007-815029; 2007-844640; 2007-846466; 2007-871512; 2007-887309; 2008-A15935; 2008-A16541; 2008-A31649; 2008-A32081; 2008-A32843; 2008-A93864; 2008-A93950; 2008-A95173; 2008-B37435; 2008-B38494; 2008-B49917; 2008-B50340; 2008-B59681; 2008-B59838; 2008-B60011; 2008-D80999; 2008-E23263; 2008-E47296; 2008-E61502; 2008-E70505; 2008-E70576; 2008-E82417; 2008-E82422; 2008-E82812; 2008-F30852; 2008-F30874; 2008-F30878; 2008-F30959; 2008-F31275; 2008-F31339; 2008-F31354; 2008-F31485; 2008-F32025; 2008-F33562; 2008-F33832; 2008-F48287; 2008-F83820; 2008-G50568; 2008-G82955; 2008-G97858; 2008-

H70729; 2008-H90005; 2008-J02574; 2008-J02875; 2008-J71355; 2008-J81270; 2008-J82016; 2008-J83295; 2008-J83296; 2008-J83297; 2008-K24535; 2008-K39891; 2008-K90725; 2008-L84466; 2008-L85179; 2008-M00025; 2008-M00247; 2008-M02286; 2008-M48310; 2008-M48311; 2008-M61283; 2008-M78449; 2008-M78482; 2008-M78483; 2008-M78484; 2008-M79150; 2008-M99395; 2008-N00383; 2008-N48212; 2008-N50104; 2008-N82927; 2008-N83337; 2008-O17197; 2009-A26407; 2009-A28592; 2009-A29945; 2009-A72602; 2009-A73936; 2009-A88880; 2008-N33739

Registration network, has netpage registration server authenticating optical sensing device e.g. netpage pen, by verifying device`s encryption, where device is registered in registration server database if authentication succeeds

Patent Assignee: LAPSTUN P (LAPS-I); SILVERBROOK K (SILV-I); SILVERBROOK RES PTY LTD (SILV-N)

Inventor: **LAPSTUN P**; **SILVERBROOK K**

Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050010770	A1	20050113	US 2000575169	A	20000523	200511	B
			US 2004900127	A	20040728		
US 7278018	B2	20071002	US 2004900127	A	20040728	200765	E

Priority Applications (no., kind, date): AU 1999559 A 19990525; AU 19991313 A 19990630; AU 20005829 A 20000224; US 2004900127 A 20040728

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20050010770	A1	EN	74	55	Continuation of application	US 2000575169
					Continuation of patent	US 6789191

Alerting Abstract US A1

NOVELTY - The network has a netpage registration server (11) authenticating an optical sensing device e.g. **netpage pen** , by verifying the device`s encryption when the device is connected to the network. The device is registered in a registration server database (74) of the server if the authentication succeeds. The device **captures** a sequence of time-stamped **positions** of the device **relative** to a surface including coded data.

USE - Registration network.

ADVANTAGE - The optical sensing device e.g. **netpage pen**, in the network is authenticated and registered before it is used according to cryptographic process, thus effectively protecting the sensitive information both in storage and transit.

DESCRIPTION OF DRAWINGS - The drawing shows a schematic view of a Web terminal authorization protocol.

11 Registration server

74 Registration server database

75 Web terminal

76 Web terminal database

601 Printer

Title Terms /Index Terms/Additional Words: REGISTER; NETWORK; SERVE; AUTHENTICITY; OPTICAL; SENSE; DEVICE; PEN; VERIFICATION; ENCRYPTION; DATABASE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
B41J-0013/10	A	I		R	20060101
B41J-0002/175	A	I		R	20060101
B41J-0002/21	A	I		R	20060101
B42C-0019/02	A	I		R	20060101
B42C-0009/00	A	I		R	20060101
B65H-0029/34	A	I		R	20060101
B65H-0037/04	A	I		R	20060101
G06F-0003/033	A	I		R	20060101
G06F-0003/12	A	I		R	20060101
G06K-0009/22	A	I		R	20060101
H04L-0009/00	A	I	F	B	20060101
H04L-0009/10	A	I		R	20060101
H04N-0001/00	A	I		R	20060101
H04N-0001/32	A	I		R	20060101
H04N-0001/327	A	I		R	20060101
B41J-0013/10	C	I		R	20060101
B41J-0002/175	C	I		R	20060101
B41J-0002/21	C	I		R	20060101
B42C-0019/00	C	I		R	20060101
B42C-0009/00	C	I		R	20060101
B65H-0029/26	C	I		R	20060101
B65H-0037/04	C	I		R	20060101
G06F-0003/033	C	I		R	20060101
G06F-0003/12	C	I		R	20060101
G06K-0009/22	C	I		R	20060101
H04L-0009/00	C	I	F	B	20060101
H04L-0009/10	C	I		R	20060101
H04N-0001/00	C	I		R	20060101
H04N-0001/32	C	I		R	20060101
H04N-0001/327	C	I		R	20060101

ECLA: B41J-002/175C, B41J-002/175C2, B41J-002/175C3A, B41J-002/175C7E, B41J-002/175C8, B41J-002/175C9, B41J-002/175F, B41J-002/21B2, B41J-013/10B, B41J-013/10C, B42C-009/00B, B42C-009/00D, B42C-019/02, B65H-029/34, B65H-037/04, G06F-003/033P2, G06F-003/12T, G06K-009/22H, H04N-001/00C3, H04N-001/00F, H04N-001/32C, H04N-001/32C15D, H04N-001/32C16, H04N-001/32C17, H04N-001/327F4

ICO: T04N-001:00C, T04N-001:32C16, T04N-001:32C17, T04N-201:00C22, T04N-201:00C3K, T04N-201:00D2B2, T04N-201:00D2B4, T04N-201:00J3, T04N-201:00W2, T04N-201:32C4F, T04N-201:32C6, T04N-201:32C6B, T04N-201:327F4M

US Classification, Current Main: 713-168000; Secondary: 380-247000, 713-170000

US Classification, Issued: 713168, 713168, 713170, 380247

File Segment: EPI;
DWPI Class: T01; T04; W01
Manual Codes (EPI/S-X): T01-D01; T01-N02B1B; T04-G02; T04-G10E; W01-A06E1C

17/5/5 (Item 5 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

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XRPX Acc No: N2001-183525

Electronic mail message composition and transmission method, involves transmitting interaction of sensor on coded data for capturing data by computer and transmitting to recipient address

Patent Assignee: LAPSTUN P (LAPS-I); SILVERBROOK K (SILV-I); SILVERBROOK RES PTY LTD (SILV-N)

Inventor: **LAPSTUN P**; **SILVERBROOK K**

Patent Family (33 patents, 92 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
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Priority Applications (no., kind, date): AU 1999559 A 19990525; AU 19991313 A 19990630; AU 19992912 A 19990917; AU 19991313 A 19990917; AU 200047269 A 20000524; AU 2003248040 A 20030917; AU 2003248041 A 20030917; AU 2003248042 A 20030917; AU 2004203507 A 20040802

Patent Details

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Alerting Abstract WO A1
NOVELTY - The electronic mail (e-mail) (1003) message on a printed document is composed by reading coded data using a sensor. The interaction of the sensor on the coded data is transmitted for capturing the data by the computer and transmitted to the recipient address.
DESCRIPTION - An INDEPENDENT CLAIM is also included for electronic mail message composition and transmission system.
USE - For composition and delivery of electronic mail message from printed matter.
ADVANTAGE - Retrieves a record of document generated by including a database such that each document is retrievable by using its identity.
DESCRIPTION OF DRAWINGS - The figure shows the schematic view of an electronic mail class diagram.
1003 Electronic mail

Title Terms /Index Terms/Additional Words: ELECTRONIC; MAIL; MESSAGE; COMPOSITION; TRANSMISSION; METHOD; TRANSMIT; INTERACT; SENSE; CODE; DATA; CAPTURE; COMPUTER; RECIPIENT; ADDRESS

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
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G06K-011/18			Secondary		"Version 7"
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US Classification, Current Main: 178-019050, 358-001150, 358-402000; Secondary: 235-472030, 358-001150, 358-001180, 358-003280, 358-402000, 358-440000, 358-462000, 358-473000, 358-478000, 379-093240, 379-100080, 382-186000, 382-188000, 382-312000, 382-313000, 382-314000, 382-317000, 709-206000, 715-222000, 715-268000, 715-274000, 715-700000, 715-752000
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Manual Codes (EPI/S-X): T01-H07C1

17/5/6 (Item 6 from file: 350) **Links**
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AU 2003262336	A1	EN			Division of patent	AU 766159
US 6768821	B2	EN			Continuation of application	US 2000575174
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IN 200200120	P1	EN			PCT Application	WO 2000AU770
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CA 2371959	C	EN			PCT Application	WO 2000AU565
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					Based on OPI patent	WO 2000072138

Alerting Abstract WO A1

NOVELTY - A sensing unit senses the region identity data using some of the coded data indicating one of the region on the netpage. The movement data indicating the **movement** of the pen **relative** to the identified region is determined using coded data and transmitted along with the region identity data, to the computer system via radio link.

USE - For use in conjunction with netpage printer of computer system for residence, office or mobile use.

ADVANTAGE - Information printed on paper can be read easily using the pen which improves portability of computer system. Allows large number of distributed users to interact with networked information, thus interactive printed matter on demand can be obtained at high speed.

DESCRIPTION OF DRAWINGS - The figure shows the perspective view of **netpage pen** and its associated tag sensing field-of-view cone.

Title Terms /Index Terms/Additional Words: PEN; COMPUTER; SYSTEM; SENSE; REGION; IDENTIFY; DATA; MOTION; CODE; PRINT; TRANSMIT

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
B41J-013/10; B41J-002/175; B41J-029/00; G06F-015/00; G06F-015/02; G06F-017/00; G06F-017/30; G06F-017/60; G06F-003/00; G06F-003/03; G06F-003/033; G06F-003/12; G06K-009/00; G06K-009/18; G06K-009/20; G06K-009/22; G06K-009/74; G08C-021/00; H04N-001/00; H04N-001/031; H04N-005/225			Main		"Version 7"
B41F-031/08; B41J-002/21; B41L-027/10; G06K-011/06; G06K-011/18; G06K-019/06; G06K-019/08; G06K-007/10; H03M-013/13			Secondary		"Version 7"
B41B-0001/02	A	I	F	B	20060101
B41F-0013/54	A	I	F	B	20060101
B41J-0011/22	A	I	L	R	20060101
B41J-0011/42	A	I	F	B	20060101
B41J-0013/00	A	I	L	R	20060101

B41J-0013/10	A	I	L		20060101
B41J-0013/10	A	I	F		20060101
B41J-0013/10	A	I		R	20060101
B41J-0002/01	A	I	F	B	20060101
B41J-0002/01	A	I	L		20060101
B41J-0002/14	A	I	L	B	20060101
B41J-0002/175	A	I	L	B	20060101
B41J-0002/175	A	I	F	B	20060101
B41J-0002/175	A	I	F		20060101
B41J-0002/175	A	I	L		20060101
B41J-0002/175	A	I		R	20060101
B41J-0002/21	A	I	L	B	20060101
B41J-0002/21	A	I	L		20060101
B41J-0002/21	A	I		R	20060101
B41J-0021/00	A	I	L		20060101
B41J-0021/00	A	I	L	R	20060101
B41J-0021/16	A	I	L		20060101
B41J-0021/16	A	I	L	R	20060101
B41J-0029/00	A	I	L	R	20060101
B41J-0029/00	A	I	L		20060101
B41J-0029/02	A	I	L		20060101
B41J-0029/12	A	I	L		20060101
B41J-0029/13	A	I	L		20060101
B41J-0029/38	A	I	L		20060101
B41J-0029/38	A	I	F	R	20060101
B41J-0029/40	A	I	L		20060101
B41J-0003/36	A	I	F	R	20060101
B41J-0003/42	A	I		R	20060101
B41J-0003/44	A	I		R	20060101
B41J-0005/30	A	I	F	B	20060101
B41J-0005/30	A	I	L		20060101
B41L-0043/12	A	I		R	20060101
B41L-0043/12	A	I	L	B	20060101
B42C-0001/00	A	I	L	R	20060101
B42C-0001/12	A	I		R	20060101
B42C-0019/00	A	I	L		20060101
B42C-0019/02	A	I	L		20060101
B42C-0019/02	A	I		R	20060101
B42C-0009/00	A	I	L	B	20060101
B42C-0009/00	A	I	L		20060101
B42C-0009/00	A	I	F	B	20060101
B42C-0009/00	A	I		R	20060101
B42D-0015/10	A	I	L		20060101
B65H-0029/26	A	I	L		20060101
B65H-0029/34	A	I	L		20060101
B65H-0029/34	A	I		R	20060101

B65H-0037/02	A	I	L	R	20060101
B65H-0037/02	A	I	L	B	20060101
B65H-0037/02	A	I		R	20060101
B65H-0037/02	A	I	L		20060101
B65H-0037/04	A	I	F	B	20060101
B65H-0037/04	A	I	L	B	20060101
B65H-0037/04	A	I	L		20060101
B65H-0037/04	A	I		R	20060101
G01J-0005/04	A	I	F	B	20060101
G03B-0015/00	A	I	F		20060101
G03B-0015/00	A	I	F	R	20060101
G03B-0017/50	A	I	L	R	20060101
G06F-0011/18	A	I	F	B	20060101
G06F-0013/00	A	I	L	B	20060101
G06F-0013/00	A	I	L		20060101
G06F-0013/00	A	I	F	B	20060101
G06F-0013/00	A	I	L	R	20060101
G06F-0015/00	A	I		R	20060101
G06F-0015/00	A	I	L	B	20060101
G06F-0015/00	A	I	F	B	20060101
G06F-0015/02	A	I	F	B	20060101
G06F-0017/00	A	I	L		20060101
G06F-0017/00	A	I	L	B	20060101
G06F-0017/00	A	I	F	B	20060101
G06F-0017/21	A	I	L		20060101
G06F-0017/22	A	I	L	R	20060101
G06F-0017/30	A	I	F	B	20060101
G06F-0017/30	A	I	L	B	20060101
G06F-0017/30	A	I	L		20060101
G06F-0017/30	A	I		R	20060101
G06F-0021/00	A	I	F	B	20060101
G06F-0021/20	A	I	L		20060101
G06F-0003/00	A	I	L		20060101
G06F-0003/00	A	I	L	B	20060101
G06F-0003/01	A	I	L	R	20060101
G06F-0003/023	A	I	L		20060101
G06F-0003/03	A	I	F		20060101
G06F-0003/03	A	I	F	B	20060101
G06F-0003/03	A	I	L	B	20060101
G06F-0003/03	A	I		R	20060101
G06F-0003/033	A	I	L	B	20060101
G06F-0003/033	A	I	F	B	20060101
G06F-0003/033	A	I		R	20060101
G06F-0003/033	A	I	L		20060101
G06F-0003/041	A	I	L		20060101
G06F-0003/041	A	I	L	R	20060101

G06F-0003/041	A	I	F		20060101
G06F-0003/042	A	I	L		20060101
G06F-0003/042	A	I	L	R	20060101
G06F-0003/048	A	I	L		20060101
G06F-0003/048	A	I	L	R	20060101
G06F-0003/048	A	I		R	20060101
G06F-0003/06	A	I	L		20060101
G06F-0003/12	A	I	F		20060101
G06F-0003/12	A	I	L		20060101
G06F-0003/12	A	I		R	20060101
G06F-0003/12	A	I	F	B	20060101
G06F-0003/12	A	I	L	B	20060101
G06F-0003/12	A	I	L	R	20060101
G06F-0007/04	A	I	F		20060101
G06F-0007/04	A	I	F	B	20060101
G06K-0011/06	A	I	L	B	20060101
G06K-0011/06	A	I		R	20060101
G06K-0011/06	A	I	L		20060101
G06K-0015/00	A	N	L	B	20060101
G06K-0015/00	A	I	F	B	20060101
G06K-0015/00	A	I	L	B	20060101
G06K-0015/00	A	I	L		20060101
G06K-0017/00	A	I	F	B	20060101
G06K-0017/00	A	I	F		20060101
G06K-0017/00	A	I	L	B	20060101
G06K-0017/00	A	I		R	20060101
G06K-0017/00	A	I	L	R	20060101
G06K-0017/00	A	I	L		20060101
G06K-0019/06	A	I	L	B	20060101
G06K-0019/06	A	I	L		20060101
G06K-0019/06	A	I	L	R	20060101
G06K-0019/08	A	I		R	20060101
G06K-0019/08	A	I	L	B	20060101
G06K-0019/08	A	I	L		20060101
G06K-0007/00	A	I	F	B	20060101
G06K-0007/00	A	I	L	R	20060101
G06K-0007/10	A	I		R	20060101
G06K-0007/10	A	I	L	B	20060101
G06K-0007/10	A	I	L		20060101
G06K-0007/10	A	I	F	B	20060101
G06K-0007/10	A	I	L	R	20060101
G06K-0009/00	A	I	L	B	20060101
G06K-0009/00	A	I	L		20060101
G06K-0009/00	A	I	F	B	20060101
G06K-0009/18	A	I	F	B	20060101
G06K-0009/18	A	I	L	B	20060101

G06K-0009/18	A	I	L		20060101
G06K-0009/20	A	I		R	20060101
G06K-0009/20	A	I	F		20060101
G06K-0009/20	A	I	F	B	20060101
G06K-0009/22	A	I		R	20060101
G06K-0009/22	A	I	F	B	20060101
G06K-0009/32	A	I	F		20060101
G06K-0009/34	A	I	F	B	20060101
G06K-0009/62	A	I	L	R	20060101
G06K-0009/74	A	I	F	B	20060101
G06K-0009/74	A	I	F		20060101
G06Q-0010/00	A	I	L	R	20060101
G06Q-0010/00	A	I	F	R	20060101
G06Q-0010/00	A	I		R	20060101
G06Q-0010/00	A	I	F	B	20060101
G06Q-0010/00	A	I	L	B	20060101
G06Q-0010/00	A	I	F		20060101
G06Q-0030/00	A	I	F	R	20060101
G06Q-0030/00	A	I	F		20060101
G06Q-0030/00	A	I	L	B	20060101
G06Q-0030/00	A	I	L	R	20060101
G06Q-0030/00	A	I	F	B	20060101
G06Q-0030/00	A	I	L		20060101
G06Q-0050/00	A	I	L	B	20060101
G06Q-0050/00	A	I	L	R	20060101
G06Q-0090/00	A	I	F		20060101
G06Q-0099/00	A	I	F	R	20060101
G06Q-0099/00	A	I	F		20060101
G06T-0001/00	A	I	L		20060101
G06T-0001/00	A	I	L	R	20060101
G07C-0011/00	A	I	L		20060101
G07C-0011/00	A	I	L	B	20060101
G08C-0021/00	A	I	L		20060101
G08C-0021/00	A	I		R	20060101
G08C-0021/00	A	I	F		20060101
G08C-0021/00	A	I	F	B	20060101
G09B-0007/00	A	I		R	20060101
G09G-0005/00	A	I		R	20060101
G09G-0005/00	A	N	L	B	20060101
G09G-0005/00	A	I	L		20060101
G09G-0005/00	A	I	F	B	20060101
G09G-0005/08	A	I	F	B	20060101
G10K-0015/02	A	I	L	R	20060101
G10L-0013/00	A	I	L	R	20060101
G10L-0019/00	A	I	L	R	20060101
H04L-0012/24	A	I	L		20060101

H04L-0012/58	A	I	L		20060101
H04L-0009/00	A	I	F		20060101
H04L-0009/00	A	I	F	B	20060101
H04L-0009/08	A	I	L	R	20060101
H04L-0009/32	A	I	L	R	20060101
H04L-0009/32	A	I	F		20060101
H04L-0009/32	A	I	F	B	20060101
H04M-0001/00	A	I	L	R	20060101
H04M-0001/2745	A	I		R	20060101
H04M-0001/2755	A	I		R	20060101
H04M-0001/725	A	I		R	20060101
H04M-0011/00	A	I	L	R	20060101
H04M-0003/42	A	I	L	R	20060101
H04N-0001/00	A	I	F		20060101
H04N-0001/00	A	I	F	B	20060101
H04N-0001/00	A	I	L		20060101
H04N-0001/00	A	I	L	B	20060101
H04N-0001/00	A	I		R	20060101
H04N-0001/32	A	I	L	B	20060101
H04N-0001/32	A	I		R	20060101
H04N-0001/32	A	N		R	20060101
H04N-0001/327	A	I		R	20060101
H04N-0001/40	A	I	L	B	20060101
H04N-0101/00	A	N	L	R	20060101
H04N-0005/225	A	I	L		20060101
H04N-0005/225	A	I	L	R	20060101
H04N-0005/225	A	I	F	B	20060101
H04N-0005/76	A	I	L	R	20060101
H04N-0007/173	A	I	L	R	20060101
H04Q-0007/38	A	I	F	B	20060101
H04Q-0007/38	A	I	L	R	20060101
H04Q-0009/00	A	I	L	R	20060101
B41B-0001/00	C	I		B	20060101
B41F-0013/54	C	I		B	20060101
B41J-0011/00	C	I	L	R	20060101
B41J-0011/42	C	I		B	20060101
B41J-0013/00	C	I	L	R	20060101
B41J-0013/10	C	I			20060101
B41J-0013/10	C	I		R	20060101
B41J-0002/01	C	I	F	B	20060101
B41J-0002/01	C	I			20060101
B41J-0002/14	C	I	L	B	20060101
B41J-0002/175	C	I	L	B	20060101
B41J-0002/175	C	I	F	B	20060101
B41J-0002/175	C	I		B	20060101
B41J-0002/175	C	I			20060101

B41J-0002/175	C	I		R	20060101
B41J-0002/21	C	I	L	B	20060101
B41J-0002/21	C	I			20060101
B41J-0002/21	C	I		R	20060101
B41J-0021/00	C	I			20060101
B41J-0021/00	C	I	L	R	20060101
B41J-0021/16	C	I			20060101
B41J-0021/16	C	I	L	R	20060101
B41J-0029/00	C	I	L	R	20060101
B41J-0029/00	C	I			20060101
B41J-0029/02	C	I			20060101
B41J-0029/12	C	I			20060101
B41J-0029/38	C	I			20060101
B41J-0029/38	C	I	F	R	20060101
B41J-0029/40	C	I			20060101
B41J-0003/36	C	I	F	R	20060101
B41J-0003/42	C	I		R	20060101
B41J-0003/44	C	I		R	20060101
B41J-0005/30	C	I	L	B	20060101
B41J-0005/30	C	I			20060101
B41L-0043/00	C	I		R	20060101
B41L-0043/00	C	I	L	B	20060101
B42C-0001/00	C	I	L	R	20060101
B42C-0001/12	C	I		R	20060101
B42C-0019/00	C	I			20060101
B42C-0019/00	C	I		R	20060101
B42C-0009/00	C	I	L	B	20060101
B42C-0009/00	C	I			20060101
B42C-0009/00	C	I		B	20060101
B42C-0009/00	C	I		R	20060101
B42D-0015/10	C	I			20060101
B65H-0029/26	C	I			20060101
B65H-0029/26	C	I		R	20060101
B65H-0037/00	C	I	L	R	20060101
B65H-0037/00	C	I	L	B	20060101
B65H-0037/00	C	I		R	20060101
B65H-0037/00	C	I			20060101
B65H-0037/04	C	I	F	B	20060101
B65H-0037/04	C	I	L	B	20060101
B65H-0037/04	C	I			20060101
B65H-0037/04	C	I		R	20060101
G01J-0005/04	C	I	F	B	20060101
G03B-0015/00	C	I			20060101
G03B-0015/00	C	I	F	R	20060101
G03B-0017/48	C	I	L	R	20060101
G06F-0011/18	C	I	F	B	20060101

G06F-0013/00	C	N	L	B	20060101
G06F-0013/00	C	I	L	B	20060101
G06F-0013/00	C	I			20060101
G06F-0013/00	C	I		B	20060101
G06F-0013/00	C	I	L	R	20060101
G06F-0015/00	C	I		R	20060101
G06F-0015/00	C	I	L	B	20060101
G06F-0015/00	C	N	L	B	20060101
G06F-0015/00	C	I	F	B	20060101
G06F-0015/00	C	I		B	20060101
G06F-0015/02	C	I		B	20060101
G06F-0017/00	C	I	L	B	20060101
G06F-0017/00	C	I			20060101
G06F-0017/00	C	I		B	20060101
G06F-0017/00	C	I	F	B	20060101
G06F-0017/21	C	I			20060101
G06F-0017/22	C	I	L	R	20060101
G06F-0017/30	C	I	L	B	20060101
G06F-0017/30	C	I	F	B	20060101
G06F-0017/30	C	I		B	20060101
G06F-0017/30	C	I			20060101
G06F-0017/30	C	I		R	20060101
G06F-0021/00	C	I			20060101
G06F-0021/00	C	I		B	20060101
G06F-0003/00	C	I		B	20060101
G06F-0003/00	C	I			20060101
G06F-0003/00	C	I	L	B	20060101
G06F-0003/01	C	I	L	R	20060101
G06F-0003/023	C	I			20060101
G06F-0003/03	C	I	F	B	20060101
G06F-0003/03	C	I			20060101
G06F-0003/03	C	I		B	20060101
G06F-0003/03	C	I		R	20060101
G06F-0003/033	C	I	F	B	20060101
G06F-0003/033	C	I	L	B	20060101
G06F-0003/033	C	I		B	20060101
G06F-0003/033	C	I		R	20060101
G06F-0003/033	C	I			20060101
G06F-0003/041	C	I			20060101
G06F-0003/041	C	I	L	R	20060101
G06F-0003/048	C	I			20060101
G06F-0003/048	C	I	L	R	20060101
G06F-0003/048	C	I		R	20060101
G06F-0003/06	C	I			20060101
G06F-0003/12	C	I	L	B	20060101
G06F-0003/12	C	I	F	B	20060101

G06F-0003/12	C	I			20060101
G06F-0003/12	C	I		R	20060101
G06F-0003/12	C	I		B	20060101
G06F-0003/12	C	I	L	R	20060101
G06F-0007/02	C	I			20060101
G06F-0007/02	C	I		B	20060101
G06K-0011/06	C	I	L	B	20060101
G06K-0011/06	C	I		R	20060101
G06K-0011/06	C	I			20060101
G06K-0015/00	C	N	L	B	20060101
G06K-0015/00	C	I	F	B	20060101
G06K-0015/00	C	I	L	B	20060101
G06K-0015/00	C	I			20060101
G06K-0017/00	C	I		B	20060101
G06K-0017/00	C	I	L	B	20060101
G06K-0017/00	C	I		R	20060101
G06K-0017/00	C	I	L	R	20060101
G06K-0017/00	C	I			20060101
G06K-0019/06	C	I	L	B	20060101
G06K-0019/06	C	I			20060101
G06K-0019/06	C	I	L	R	20060101
G06K-0019/08	C	I		R	20060101
G06K-0019/08	C	I	L	B	20060101
G06K-0019/08	C	I			20060101
G06K-0007/00	C	I	L	B	20060101
G06K-0007/00	C	I	L	R	20060101
G06K-0007/10	C	I		R	20060101
G06K-0007/10	C	I	L	B	20060101
G06K-0007/10	C	I		B	20060101
G06K-0007/10	C	I	L	R	20060101
G06K-0009/00	C	I	L	B	20060101
G06K-0009/00	C	I	F	B	20060101
G06K-0009/00	C	I			20060101
G06K-0009/00	C	I		B	20060101
G06K-0009/18	C	I	F	B	20060101
G06K-0009/18	C	I		B	20060101
G06K-0009/18	C	I	L	B	20060101
G06K-0009/18	C	I			20060101
G06K-0009/20	C	I		R	20060101
G06K-0009/20	C	I			20060101
G06K-0009/20	C	I		B	20060101
G06K-0009/22	C	I	L	B	20060101
G06K-0009/22	C	I	F	B	20060101
G06K-0009/22	C	I		R	20060101
G06K-0009/22	C	I		B	20060101
G06K-0009/32	C	I			20060101

G06K-0009/34	C	I	F	B	20060101
G06K-0009/62	C	I	L	R	20060101
G06K-0009/74	C	I		B	20060101
G06K-0009/74	C	I			20060101
G06Q-0010/00	C	I	L	R	20060101
G06Q-0010/00	C	I	L	B	20060101
G06Q-0010/00	C	I		R	20060101
G06Q-0010/00	C	I	F	B	20060101
G06Q-0010/00	C	I		B	20060101
G06Q-0010/00	C	I			20060101
G06Q-0030/00	C	I	F	R	20060101
G06Q-0030/00	C	I	F	B	20060101
G06Q-0030/00	C	I	L	B	20060101
G06Q-0030/00	C	I	L	R	20060101
G06Q-0030/00	C	I		B	20060101
G06Q-0030/00	C	I			20060101
G06Q-0050/00	C	I	L	B	20060101
G06Q-0050/00	C	I	L	R	20060101
G06Q-0090/00	C	I			20060101
G06Q-0099/00	C	I		R	20060101
G06Q-0099/00	C	I			20060101
G06T-0001/00	C	I	L	R	20060101
G07C-0011/00	C	I			20060101
G07C-0011/00	C	I		B	20060101
G08C-0021/00	C	N	L	B	20060101
G08C-0021/00	C	I		R	20060101
G08C-0021/00	C	I			20060101
G08C-0021/00	C	I		B	20060101
G09B-0007/00	C	I		R	20060101
G09G-0005/00	C	I		R	20060101
G09G-0005/00	C	N	L	B	20060101
G09G-0005/00	C	I			20060101
G09G-0005/00	C	I	F	B	20060101
G09G-0005/00	C	I		B	20060101
G09G-0005/08	C	I	F	B	20060101
G10K-0015/02	C	I	L	R	20060101
G10L-0013/00	C	I	L	R	20060101
G10L-0019/00	C	I	L	R	20060101
H04L-0012/24	C	I			20060101
H04L-0012/58	C	I			20060101
H04L-0009/00	C	I			20060101
H04L-0009/00	C	I		B	20060101
H04L-0009/08	C	I	L	R	20060101
H04L-0009/32	C	I	L	R	20060101
H04L-0009/32	C	I			20060101
H04L-0009/32	C	I		B	20060101

H04M-0001/00	C	I	L	R	20060101
H04M-0001/274	C	I		R	20060101
H04M-0001/72	C	I		R	20060101
H04M-0011/00	C	I	L	R	20060101
H04M-0003/42	C	I	L	R	20060101
H04N-0001/00	C	I	L	B	20060101
H04N-0001/00	C	I			20060101
H04N-0001/00	C	I		B	20060101
H04N-0001/00	C	I		R	20060101
H04N-0001/32	C	I	L	B	20060101
H04N-0001/32	C	I		R	20060101
H04N-0001/32	C	N		R	20060101
H04N-0001/327	C	I		R	20060101
H04N-0001/40	C	I		B	20060101
H04N-0005/225	C	I		B	20060101
H04N-0005/225	C	I			20060101
H04N-0005/225	C	I	L	R	20060101
H04N-0005/225	C	I	F	B	20060101
H04N-0005/76	C	I	L	R	20060101
H04N-0007/173	C	I	L	R	20060101
H04Q-0007/38	C	I	L	B	20060101
H04Q-0007/38	C	I	L	R	20060101
H04Q-0009/00	C	I	L	R	20060101

ECLA: B41J-002/175C, B41J-002/175C2, B41J-002/175C3, B41J-002/175C3A, B41J-002/175C7E, B41J-002/175C8, B41J-002/175C9, B41J-002/175F, B41J-002/21B2, B41J-003/44B, B41J-013/10B, B41J-013/10C, B41J-029/02, B41J-029/13, B42C-009/00B, B42C-009/00D, B42C-019/02, B65H-029/34, B65H-037/04, C09D-011/00B, G06F-003/03H, G06F-003/03H3, G06F-003/033P2, G06F-003/033P2B, G06F-003/048A3G, G06F-003/12T, G06F-017/30T2F1V, G06F-017/30W1F, G06K-009/20R1, G06K-009/22, G06K-009/22H, G06K-009/24, G06K-017/00, G09B-007/00, H04M-001/2745G, H04M-001/2755, H04M-001/725F1B, H04M-001/725F1B1, H04M-001/725F1W, H04N-001/00C22, H04N-001/00C3, H04N-001/00F, H04N-001/32C, H04N-001/32C15D, H04N-001/32C16, H04N-001/32C17, H04N-001/327F4
ICO: L42P-261:04, T04N-001:00C, T04N-001:00C7D, T04N-001:32C16, T04N-001:32C17, T04N-201:00C22, T04N-201:00C3K, T04N-201:00D2B2, T04N-201:00D2B4, T04N-201:00D2M, T04N-201:00J3, T04N-201:00W2, T04N-201:32C4F, T04N-201:32C4K, T04N-201:32C4L, T04N-201:32C6, T04N-201:32C6B, T04N-201:327F4M
US Classification, Current Main: 178-019050, 235-375000, 235-454000, 250-338100, 270-001010, 345-156000, 345-173000, 345-175000, 345-179000, 347-005000, 347-086000, 347-104000, 348-207200, 358-001100, 358-001140, 358-001150, 358-001170, 358-001180, 358-001600, 358-001900, 358-402000, 382-175000, 382-187000, 382-312000, 382-313000, 400-062000, 400-076000, 412-008000, 455-411000, 455-414100, 700-094000, 705-037000, 705-040000, 707-003000, 707-004000, 707-201000, 713-168000, 713-193000, 726-028000; Secondary: 40-124010, 178-018030, 178-019010, 178-019050, 235-435000, 235-454000, 235-462320, 235-472030, 235-487000, 340-005810, 345-156000, 345-173000, 345-175000, 345-179000, 347-085000, 347-087000, 347-088000, 347-089000, 347-098000, 348-E05024, 358-001100, 358-001150, 358-001180, 358-402000, 358-403000, 358-407000, 358-426160, 358-474000, 380-028000, 380-

036000, 380-055000, 382-100000, 382-119000, 382-173000, 382-175000, 382-187000, 382-188000, 382-289000, 382-291000, 382-305000, 382-312000, 382-314000, 382-317000, 705-071000, 705-075000, 705-076000, 707-002000, 707-004000, 707-005000, 707-010000, 707-100000, 707-101000, 707-104100, 707-E17067, 707-E17109, 713-155000, 713-161000, 713-163000, 713-168000, 713-171000, 713-175000, 713-176000, 713-182000, 713-186000, 713-191000, 713-193000, 715-200000, 715-221000, 715-234000, 715-243000, 715-274000, 715-700000

US Classification, Issued: 34786, 34786, 382313, 382313, 382313, 358402, 345156, 3581.15, 382312, 345173, 382313, 382187, 382313, 382313, 235375, 3581.15, 3581.1, 3581.15, 3581.18, 3475, 348207.2, 713193, 713176, 235454, 34786, 34798, 34786, 345173, 34786, 713168, 70537, 348207.2, 3581.18, 715507, 40124.01, 715527, 3581.15, 3581.18, 382119, 382187, 382314, 382317, 3405.81, 235472.03, 382289, 382291, 358402, 455411, 3581.14, 382313, 345179, 3581.15, 40062, 707201, 455414.1, 345179, 3581.6, 3581.15, 3581.17, 382175.0, 715513.0, 715500.0, 3581.15, 235375.0, 250338.1, 382313, 382314, 345173, 345173, 345173, 345173, 345173, 2701.01, 3581.9, 235375, 40076, 382187, 4128, 345156, 3581.15, 3581.18, 3581.18, 3581.15, 3581.15, 348207.2, 348E05.024, 70094, 34787, 34786, 34786, 17819.05, 17818.03, 17819.01, 345179, 3581.15, 358407, 358474, 382317, 382173, 382175, 345173, 235454, 235487, 382313, 382312, 382314, 382188, 382314, 382312, 382188, 382313, 382188, 348207.2, 345179, 3581.1, 34786, 34787, 34788, 34789, 382313, 382312, 382314, 382188, 7073, 7072, 7073, 7074 , 7075, 707101, 382100, 235487, 235494, 3581.18, 3581.17, 3581.15, 3581.9, 382314, 382312, 382188, 235375, 235435, 235454, 382187, 3581.15, 3581.18, 358402, 358442, 34786, 382313, 382314, 382188, 713168, 713171, 713186, 713161, 713175, 713176, 713182, 713191, 38036, 38028, 70571, 70575, 70576, 382312, 3581.15, 70540, 3581.15, 345156, 3581.15, 358402, 715506, 345156, 345153, 345166, 345173, 345177, 345179, 345181, 17818.01, 17818.03, 17819.01, 17819.05, 382313, 382314, 382315, 717101, 717106, 707101, 382312, 382314, 3581.15, 7074, 7072, 707100, 707101, 382100, 345156, 345175, 345179, 7073, 7074, 7075, 70710, 707104.1, 345179, 345175, 17819.05, 3581.15, 358442, 358434, 347104, 3581.15, 3581.18, 3581.1, 3581.1, 358403, 358470, 7074, 7073, 7075, 707101, 707104.1, 345156, 345175, 713176, 713168, 38051, 38054, 38055, 28378, 3581.18, 382180, 715911, 3582.1, 72626, 715502, 715709, 34786, 382187, 382305, 358403, 34786, 34785, 3581.15, 358426.16, 715700, 345175, 235462.32, 3581.1, 3581.15, 3581.18, 382313, 382187, 72628, 713193, 713176 , 713168, 713163, 713155, 38055

Japan National Classification FI Terms

FI Term	Facet	Rank	Type
G06F-003/03 310 E			
G06F-003/03 330 J			
G06F-003/03 380 M			
G06F-003/041 350 E			
G06F-003/041 380 M			
G06F-003/042 J			

Japan National Classification F Terms

Theme	ViewPoint + Figure	Additional Code
5B068		
5B068	AA05	
5B068	BB36	
5B068	BC07	
5B068	BD17	
5B068	BE08	

5B068	CC06	
5B068	DE01	

File Segment: CPI; EngPI; EPI
DWPI Class: A85; A89; T01; T04; T05; S03; S06; U12; W01; W04; P74; P75; P76; P82; P85; Q36; P84
Manual Codes (EPI/S-X): T04-F02

10/3K/5 (Item 3 from file: 349) **Links**
Fulltext available through: Order File History
PCT FULLTEXT

01168945
OBTAINING PRODUCT ITEM ASSISTANCE
OBTENTION D'ASSISTANCE CONCERNANT UN PRODUIT

Patent Applicant/Patent Assignee:

8. **SILVERBROOK RESEARCH PTY LTD**; 393 Darling Street, Balmain, New South Wales 2041 AU; AU(Residence); AU(Nationality)
(For all designated states except: US)

9. **SILVERBROOK Kia**; Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041
AU; AU(Residence); AU(Nationality)
(Designated only for: US)

10. **LAPSTUN Paul**; Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041 AU; AU(Residence); NO(Nationality)
(Designated only for: US)

Patent Applicant/Inventor:

11. **SILVERBROOK Kia**
Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041; AU; AU(Residence); AU(Nationality); (Designated only for: US)

12. **LAPSTUN Paul**
Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041; AU; AU(Residence); NO(Nationality); (Designated only for: US)

Legal Representative:

13. **SILVERBROOK Kia(agent)**
Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, NSW 2041; AU;

	Country	Number	Kind	Date
Patent	WO	200490803	A1	20041021
Application	WO	2004AU437		20040402
Priorities	AU	2003901617		20030407
	AU	2003901795		20030415

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)
AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;
IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR;
LS; LT; LU; LV; MA; MD; MG; MK; MN; MW;
MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY;
TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ;
VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;
PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; SD; SL; SZ;
TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English
Filing Language: English
Fulltext word count: 123002

Detailed Description:

...U.S.

Experience", Unilever Bestfoods North America, 27 March 200 1. However, the 5 cent **tag** goal is still highly speculative, and even in multi-**billion tag** volumes there is currently no projected timeline for achieving an RFID tag price lower than... ...includes, at a plurality of locations on the interface surface, a corresponding plurality of coded **data** portions, each coded **data** portion being indicative of an identity of the details interface surface and the position of...including an associated interface 5 surface, the interface surface having disposed thereon or therein coded **data** indicative of an identity of the product item, the sensing device including.

(a) a sensor...page ID changes, which, under normal circumstances, is at the commencement of the stroke.

Each **netpage pen** has a current selection 826 associated with it, allowing the user to perform copy... ...current selection describes a region of a page instance. It consists of the most recent **digital ink stroke captured** through the pen **relative** to the background area of the page. It is interpreted in an application-specific manner...

10/3K/6 (Item 4 from file: 349) **Links**
Fulltext available through: Order File History
PCT FULLTEXT

01167239
SENSING DEVICE FOR CODED DATA
DISPOSITIF DE DETECTION POUR DONNEES CODEES

Patent Applicant/Patent Assignee:

14. **SILVERBROOK RESEARCH PTY LTD**; 393 Darling Street, Balmain, New South Wales 2041 AU; AU(Residence); AU(Nationality)
(For all designated states except: US)
15. **YOURLO Zhenya Alexander**; Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041
AU; AU(Residence); AU(Nationality)
(For all designated states except: US)
16. **RIDLEY Nicholas Damon**; Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041
AU; AU(Residence); AU(Nationality)
(For all designated states except: US)
17. **SILVERBROOK Kia**; Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041
AU; AU(Residence); AU(Nationality)
(Designated only for: US)
18. **LAPSTUN Paul**; Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041
AU; AU(Residence); NO(Nationality)
(Designated only for: US)
19. **HENDERSON Peter Charles Boyd**; Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041
AU; AU(Residence); AU(Nationality)
(Designated only for: US)
20. **RUSMAN Jan**; Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041
AU; AU(Residence); AU(Nationality)
(Designated only for: US)
21. **MOINI Alireza**; Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041
AU; AU(Residence); AU(Nationality)
(Designated only for: US)
22. **UNDERWOOD Matthew John**; Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041
AU; AU(Residence); AU(Nationality)
(Designated only for: US)

Patent Applicant/Inventor:

23. **SILVERBROOK Kia**
Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041; AU; AU(Residence); AU(Nationality); (Designated only for: US)

24. **LAPSTUN Paul**
Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041; AU; AU(Residence); NO(Nationality); (Designated only for: US)

25. **HENDERSON Peter Charles Boyd**
Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041; AU; AU(Residence); AU(Nationality); (Designated only for: US)

26. **RUSMAN Jan**
Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041; AU; AU(Residence); AU(Nationality); (Designated only for: US)

27. **MOINI Alireza**
Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041; AU; AU(Residence); AU(Nationality); (Designated only for: US)

28. **UNDERWOOD Matthew John**
Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041; AU; AU(Residence); AU(Nationality); (Designated only for: US)

Legal Representative:

29. **SILVERBROOK Kia(agent)**
Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041; AU;

	Country	Number	Kind	Date
Patent	WO	200490798	A1	20041021
Application	WO	2004AU400		20040402
Priorities	AU	2003901617		20030407
	AU	2003901795		20030415

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)
AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;
IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR;
LS; LT; LU; LV; MA; MD; MG; MK; MN; MW;
MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY;
TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ;
VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;
PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;

ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; SD; SL; SZ;
TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English
Filing Language: English
Fulltext word count: 98184

Detailed Description:

...be registered with a netpage registration server I 1 and linked to one or more **payment** card accounts. This allows e-commerce **payments** to be securely authorized using the netpage pen. The netpage registration server compares the signature...page ID changes, which, under normal circumstances, is at the commencement of the stroke.

Each **netpage pen** has a current selection 826 associated with it, allowing the user to perform copy and...
...current selection describes a region of a page instance. It consists of the most recent **digital ink stroke captured** through the pen **relative** to the background area of the page. It is interpreted in an application-specific manner...Click Submit selection to application
Form field Cheekbox Any mark Assign true to field
Text **Handwriting Convert** digital ink to text; assign text to
field
Drawing Digital ink Assign digital ink to... ...the page description 5; identifying (at 887) a formatted element 839 whose zone 58 the **stroke** intersects; **determining** (at 888) whether the formatted element corresponds to a field element, and if so appending (at 892) the received stroke to the **digital ink** of the field value 871, interpreting (at 893) the accumulated **digital ink** of the field, and determining (at 894) whether the field is part of a hyperlinked... ...the absence of an input field or hyperlink, appending (at) the received stroke to the **digital ink** of the background field 833; and copying (at 891) the received stroke to the current...

10/3K/7 (Item 5 from file: 349) **Links**
Fulltext available through: Order File History

01127952
ROTATIONALLY SYMMETRIC TAGS
REPERES A SYMETRIE ROTATIONNELLE

Patent Applicant/Patent Assignee:

30. **SILVERBROOK RESEARCH PTY LTD**; 393 Darling Street, Balmain, New South Wales 2041 AU; AU(Residence); AU(Nationality)
(For all designated states except: US)

31. **LAPSTUN Paul**; Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041 AU; AU(Residence); NO(Nationality)
(Designated only for: US)

Patent Applicant/Inventor:

32. **LAPSTUN Paul**
Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041; AU; AU(Residence); NO(Nationality); (Designated only for: US)

Legal Representative:

33. **SILVERBROOK Kia(agent)**
Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041; AU;

	Country	Number	Kind	Date
Patent	WO	200451557	A1	20040617
Application	WO	2002AU1634		20021203
Priorities	WO	2002AU1634		20021203

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;
SE; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English
Filing Language: English
Fulltext word count: 28023

Claims:

...long as those requests are initiated via a pen registered to the printer.
3.3 **NETPAGE PEN** SECURITYEach **netpage pen** is assigned a unique,identifier at time of manufacture which is stored in read-only... ...server database. The pen ID 61 uniquely identifies the pen on the netpage network. A **netpage pen** can "know" a number of netpage printers, and a printer can "know" a number of... ...a pen and printer are registered, they regularly exchange session keys. Whenever the pen transmits **digital ink** to the printer, the **digital ink** is always encrypted using the appropriate session key. **Digital ink** is never transmitted in the clear. A pen stores a session key for every printer... ...the printer is meant to know the pen but doesn't, then it initiates the **automatic pen** registration procedure. If the printer isn't meant to know the pen, then it agrees... ...on netpage page servers. It is therefore impossible for recipients to repudiate delivery. E-cornmerce **payments** made through the **system**,

18/5/9 (Item 1 from file: 349) **Links**
Fulltext available through: Order File History
PCT FULLTEXT

00769478
METHOD AND SYSTEM FOR BANKING
PROCEDE ET SYSTEME DE TRAITEMENT DES OPERATIONS BANCAIRES

Patent Applicant/Patent Assignee:

34. **SILVERBROOK RESEARCH PTY LTD**; 393 Darling Street, Balmain, NSW 2041 AU; AU(Residence); AU(Nationality)
(For all designated states except: US)

35. **SILVERBROOK Kia**; Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, NSW 2041 AU; AU(Residence); AU(Nationality)
(Designated only for: US)

36. **LAPSTUN Jacqueline Anne**; 13 Duke Avenue, Rodd Point, NSW 2046 AU; AU(Residence); AU(Nationality)
(Designated only for: US)

37. **LAPSTUN Paul**; 13 Duke Avenue, Rodd Point, NSW 2046 AU; AU(Residence); NO(Nationality)
(Designated only for: US)

Patent Applicant/Inventor:

38. **SILVERBROOK Kia**
Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, NSW 2041; AU; AU(Residence); AU(Nationality); (Designated only for: US)

39. **LAPSTUN Jacqueline Anne**
13 Duke Avenue, Rodd Point, NSW 2046; AU; AU(Residence); AU(Nationality); (Designated only for: US)

40. **LAPSTUN Paul**
13 Duke Avenue, Rodd Point, NSW 2046; AU; AU(Residence); NO(Nationality); (Designated only for: US)

Legal Representative:

41. **SILVERBROOK Kia**
Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, NSW 2041; AU;

	Country	Number	Kind	Date
Patent	WO	200103012	A1	20010111
Application	WO	2000AU767		20000630
Priorities	AU	991313		19990630
	AU	991312		19990630
	AU	994912		19991224

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-017/40	Main
G06K-011/18	

Publication Language: English
Filing Language: English
Fulltext word count: 31461

English Abstract:

Methods and systems are disclosed which relate to online banking via interface surfaces printed with information and coded data. The coded data, encoded visibly or invisibly, may be queried by an appropriate sensing device. The sensing device communicates with a computer system. Together, the interface surfaces, sensing device and computer system are capable of effecting banking transactions over a network.

Type	Pub. Date	Kind	Text
Publication	20010111	A1	With international search report.
Examination	20010315		Request for preliminary examination prior to end of 19th month from priority date

18/5/10 (Item 2 from file: 349) **Links**
Fulltext available through: Order File History
PCT FULLTEXT

00758842
METHOD AND SYSTEM FOR BILL MANAGEMENT
PROCEDE ET SYSTEME DE GESTION DE FACTURES

Patent Applicant/Patent Assignee:

42. **SILVERBROOK RESEARCH PTY LTD**; 393 Darling Street, Balmain, New South Wales 2041 AU; AU (Residence); AU (Nationality)
(For all designated states except: US)

43. **SILVERBROOK Kia**; Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041
AU; AU (Residence); AU (Nationality)
(For all designated states except: US)

44. **LAPSTUN Paul**; 13 Duke Avenue, Rodd Point, New South Wales 2046
AU; AU (Residence); NO (Nationality)
(Designated only for: US)

45. **LAPSTUN Jacqueline Anne**; 13 Duke Avenue, Rodd Point, New South Wales 2046
AU; AU (Residence); AU (Nationality)
(Designated only for: US)

Patent Applicant/Inventor:

46. **LAPSTUN Paul**
13 Duke Avenue, Rodd Point, New South Wales 2046; AU; AU (Residence); NO (Nationality);
(Designated only for: US)

47. **LAPSTUN Jacqueline Anne**
13 Duke Avenue, Rodd Point, New South Wales 2046; AU; AU (Residence); AU (Nationality);
(Designated only for: US)

	Country	Number	Kind	Date
Patent	WO	200072245	A1	20001130
Application	WO	2000AU537		20000524
Priorities	AU	99559		19990525
	AU	991313		19990630
	AU	991312		19990630

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)
AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;
BR; BY; CA; CH; CN; CR; CU; CZ; DE; DK;
DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM;
HR; HU; ID; IL; IN; IS; JP; KE; KG; KP;
KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA;
MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL;
PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ;
TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU;
ZA; ZW;

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06K-011/18	Main
G06F-003/03	
G06F-017/60	
G06F-151/00	

Publication Language: English
Filing Language: English
Fulltext word count: 35289

English Abstract:

Methods and systems are disclosed which relate to online bill management via interface surfaces printed with information and coded data. The coded data, encoded visibly or invisibly, may be queried by an appropriate sensing device. The sensing device communicates with a computer system. Together, the interface surfaces, sensing device and computer system are capable of effecting online bill management, including bill payment, over a network.

Type	Pub. Date	Kind	Text
Publication	20001130	A1	With international search report.
Examination	20010215		Request for preliminary examination prior to end of 19th month from priority date
Correction	20041125		Corrected version of Pamphlet:
Republication	20041125	A1	With international search report.
Correction	20041125		Corrected version of Pamphlet:
Correction	20060112		Corrected version of Pamphlet:
Republication	20060112	A1	With international search report.

18/5/11 (Item 3 from file: 349) **Links**
Fulltext available through: Order File History
PCT FULLTEXT

00758833
METHOD AND SYSTEM FOR DELIVERY OF A GREETING CARD
METHODE DE REMISE DE CARTE DE VOEUX ET SYSTEME CORRESPONDANT

Patent Applicant/Patent Assignee:

48. **SILVERBROOK RESEARCH PTY LTD**; 393 Darling Street, Balmain, NSW 2041 AU; AU(Residence); AU(Nationality)
(For all designated states except: US)

49. **SILVERBROOK Kia**; Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, NSW 2041 AU; AU(Residence); AU(Nationality)
(For all designated states except: US)

50. **LAPSTUN Paul**; 13 Duke Avenue, Rodd Point, NSW 2046
AU; AU(Residence); AU(Nationality)
(Designated only for: US)

51. **LAPSTUN Jacqueline Anne**; 13 Duke Avenue, Rodd Point, NSW 2046
AU; AU(Residence); AU(Nationality)
(Designated only for: US)

Patent Applicant/Inventor:

52. **LAPSTUN Paul**
13 Duke Avenue, Rodd Point, NSW 2046; AU; AU(Residence); AU(Nationality); (Designated only for: US)

53. **LAPSTUN Jacqueline Anne**
13 Duke Avenue, Rodd Point, NSW 2046; AU; AU(Residence); AU(Nationality); (Designated only for: US)

	Country	Number	Kind	Date
Patent	WO	200072236	A1	20001130
Application	WO	2000AU529		20000524
Priorities	AU	99559		19990525
	AU	991313		19990630

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06K-009/18	Main
G06F-017/60	

Publication Language: English
Filing Language: English
Fulltext word count: 32412

English Abstract:

A method of selecting and delivering a greeting card, including: obtaining a document with details of a selection of available greeting cards, the document having at least one user-interactive element with which a user interacts to select a card using a sensing device adapted to transmit interaction data to a computer system; indicating selection of a card using the sensing device; including a message using the sensing device; and sending the card to a recipient address via the computer system.

Type	Pub. Date	Kind	Text
Publication	20001130	A1	With international search report.
Examination	20010222		Request for preliminary examination prior to end of 19th month from priority date

18/5/12 (Item 4 from file: 349) **Links**
Fulltext available through: Order File History
PCT FULLTEXT

00758741
PORTABLE INTERACTIVE PRINTER
IMPRIMANTE PORTABLE INTERACTIVE

Patent Applicant/Patent Assignee:

54. **SILVERBROOK RESEARCH PTY LTD**; 393 Darling Street, Balmain, New South Wales 2041 AU; AU(Residence); AU(Nationality)
(For all designated states except: US)

55. **SILVERBROOK Kia**; Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041
AU; AU(Residence); AU(Nationality)
(Designated only for: US)

56. **LAPSTUN Paul**; 13 Duke Avenue, Rodd Point, New South Wales 2046
AU; AU(Residence); NO(Nationality)
(Designated only for: US)

57. **KING Tobin Allen**; Unit 2, 125 Cremorne Road, Cremorne, New South Wales 2090
AU; AU(Residence); AU(Nationality)
(Designated only for: US)

Patent Applicant/Inventor:

58. **SILVERBROOK Kia**
Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, New South Wales 2041; AU; AU(Residence); AU(Nationality); (Designated only for: US)

59. **LAPSTUN Paul**
13 Duke Avenue, Rodd Point, New South Wales 2046; AU; AU(Residence); NO(Nationality); (Designated only for: US)

60. **KING Tobin Allen**
Unit 2, 125 Cremorne Road, Cremorne, New South Wales 2090; AU; AU(Residence); AU(Nationality); (Designated only for: US)

Legal Representative:

61. **SILVERBROOK RESEARCH PTY LTD**
393 Darling Street, Balmain, New South Wales 2041; AU;

	Country	Number	Kind	Date
Patent	WO	200072129	A1	20001130
Application	WO	2000AU564		20000524
Priorities	AU	99559		19990525
	AU	991313		19990630
	AU	993632		19991025

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-003/03	Main
G06F-003/033	
B41F-031/08	
B41J-002/21	
B41L-027/10	

Publication Language: English
Filing Language: English
Fulltext word count: 33228

English Abstract:

A portable printer for printing a second interface onto a second surface, in response to first indicating data received from a sensing device in the form of a stylus. The first indicating data is sensed by the stylus from first coded data. A first interface is disposed on a first surface, and includes the first coded data. The printer includes an input module and a printing module. The input module is configured to receive the first indicating data from the stylus, the first indicating data being at least partially indicative of response data. The input module generates second indicating data based on the first indicating data, the second indicating data being at least partially indicative of the response data. The second indicating data is sent to a computer system. The printing module includes a printing mechanism configured to receive the response data from the computer system. The second interface is based at least partially on the response data. The printing module then prints the second interface onto the second surface using the printing mechanism.

Type	Pub. Date	Kind	Text
Publication	20001130	A1	With international search report.
Examination	20010222		Request for preliminary examination prior to end of

			19th month from priority date

18/5/13 (Item 5 from file: 349) **Links**
Fulltext available through: Order File History
PCT FULLTEXT

00758740
INTERACTIVE PRINTER WITH ACTUATOR
IMPRIMANTE INTERACTIVE A ACTIONNEUR

Patent Applicant/Patent Assignee:

62. **SILVERBROOK RESEARCH PTY LTD**; 393 Darling Street, Balmain, NSW 2041 AU; AU(Residence); AU(Nationality)
(For all designated states except: US)

63. **LAPSTUN Paul**; 13 Duke Avenue, Rodd Point, NSW 2046 AU; AU(Residence); NO(Nationality)
(Designated only for: US)

64. **KING Tobin Allen**; Unit 2, 125 Cremorne Road, Cremorne, NSW 2090 AU; AU(Residence); AU(Nationality)
(Designated only for: US)

65. **SILVERBROOK Kia**; Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, NSW 2041 AU; AU(Residence); AU(Nationality)
(Designated only for: US)

Patent Applicant/Inventor:

66. **LAPSTUN Paul**
13 Duke Avenue, Rodd Point, NSW 2046; AU; AU(Residence); NO(Nationality); (Designated only for: US)

67. **KING Tobin Allen**
Unit 2, 125 Cremorne Road, Cremorne, NSW 2090; AU; AU(Residence); AU(Nationality); (Designated only for: US)

68. **SILVERBROOK Kia**
Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, NSW 2041; AU; AU(Residence); AU(Nationality); (Designated only for: US)

Legal Representative:

69. **SILVERBROOK RESEARCH PTY LTD**
393 Darling Street, Balmain, NSW 2041; AU;

	Country	Number	Kind	Date
Patent	WO	200072128	A1	20001130
Application	WO	2000AU563		20000524
Priorities	AU	99559		19990525
	AU	991313		19990630

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-003/03	Main
G06F-003/033	
B41F-031/08	
B41L-027/10	
B41J-002/21	

Publication Language: English
Filing Language: English
Fulltext word count: 32607

English Abstract:

A printer for printing a first interface onto a first surface, thereby to generate a first interface surface. The first interface includes first coded data and is at least partially based on first document data. The document data includes first identity data indicative of at least one identity, the identity being associated with a region of the first interface. The printer includes an actuator in the form of a button, a coded data generator to generate the first coded data based at least partially on the first identity data, and a printing mechanism. When the button is pressed, the printer prints the first interface onto the first surface.

Type	Pub. Date	Kind	Text
Publication	20001130	A1	With international search report.
Examination	20010222		Request for preliminary examination prior to end of 19th month from priority date

18/5/14 (Item 6 from file: 349) **Links**
Fulltext available through: Order File History
PCT FULLTEXT

00758739
INTERACTIVE PRINTER
IMPRIMANTE INTERACTIVE

Patent Applicant/Patent Assignee:

70. **SILVERBROOK RESEARCH PTY LTD**; 393 Darling Street, Balmain, NSW 2041 AU; AU(Residence); AU(Nationality)
(For all designated states except: US)

71. **SILVERBROOK Kia**; Silverbrook Research Pty. Ltd., 393 Darling Street, Balmain, NSW 2041 AU; AU(Residence); AU(Nationality)
(Designated only for: US)

72. **LAPSTUN Paul**; 13 Duke Avenue, Rodd Point, NSW 2046 AU; AU(Residence); NO(Nationality)
(Designated only for: US)

Patent Applicant/Inventor:

73. **SILVERBROOK Kia**
Silverbrook Research Pty. Ltd., 393 Darling Street, Balmain, NSW 2041; AU; AU(Residence); AU(Nationality); (Designated only for: US)

74. **LAPSTUN Paul**
13 Duke Avenue, Rodd Point, NSW 2046; AU; AU(Residence); NO(Nationality); (Designated only for: US)

Legal Representative:

75. **SILVERBROOK RESEARCH PTY LTD**
393 Darling Street, Balmain, NSW 2041; AU;

	Country	Number	Kind	Date
Patent	WO	200072127	A1	20001130
Application	WO	2000AU561		20000524
Priorities	AU	99559		19990525
	AU	991313		19990630
	AU	993632		19991025

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-003/03	Main

G06F-003/033	
B41F-031/08	
B41L-027/10	
B41J-002/21	

Publication Language: English
Filing Language: English
Fulltext word count: 33274

English Abstract:

A printer for printing a second interface onto a second surface, in response to first indicating data received from a sensing device in the form of a stylus. The first indicating data is sensed by the stylus from first coded data. A first interface is disposed on a first surface, and includes the first coded data. The printer includes an input module and a printing module. The input module is configured to receive the first indicating data from the stylus, the first indicating data being at least partially indicative of response data. The input module generates second indicating data based on the first indicating data, the second indicating data being at least partially indicative of the response data. The second indicating data is sent to a computer system. The printing module includes a printing mechanism configured to receive the response data from the computer system. The second interface is based at least partially on the response data. The printing module then prints the second interface onto the second surface using the printing mechanism.

Type	Pub. Date	Kind	Text
Publication	20001130	A1	With international search report.
Examination	20010215		Request for preliminary examination prior to end of 19th month from priority date

18/5/15 (Item 7 from file: 349) **Links**
Fulltext available through: Order File History
PCT FULLTEXT

00758738
INTERFACE SURFACE PRINTER
IMPRIMANTE POUR IMPRIMER UNE INTERFACE SUR UNE SURFACE

Patent Applicant/Patent Assignee:

76. **SILVERBROOK RESEARCH PTY LTD**; 393 Darling Street, Balmain, NSW 2041 AU; AU(Residence); AU(Nationality)
(For all designated states except: US)

77. **SILVERBROOK Kia**; Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, NSW 2041 AU; AU(Residence); AU(Nationality)
(Designated only for: US)

78. **LAPSTUN Paul**; 13 Duke Avenue, Rodd Point, NSW 2046 AU; AU(Residence); NO(Nationality)
(Designated only for: US)

Patent Applicant/Inventor:

79. **SILVERBROOK Kia**
Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, NSW 2041; AU; AU(Residence); AU(Nationality); (Designated only for: US)

80. **LAPSTUN Paul**
13 Duke Avenue, Rodd Point, NSW 2046; AU; AU(Residence); NO(Nationality); (Designated only for: US)

Legal Representative:

81. **SILVERBROOK RESEARCH PTY LTD**
393 Darling Street, Balmain, NSW 2041; AU;

	Country	Number	Kind	Date
Patent	WO	200072126	A1	20001130
Application	WO	2000AU560		20000524
Priorities	AU	99559		19990525
	AU	991313		19990630
	AU	993632		19991025

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-003/03	Main
G06F-003/033	
B41F-031/08	
B41L-027/10	
B41J-002/21	

Publication Language: English
Filing Language: English
Fulltext word count: 32295

English Abstract:

A printer for receiving document data from a computer system and printing an interface onto a surface. The interface is based on the document data, which includes identity data indicative of at least one identity. The identity is, in turn, associated with a region of the interface. The interface also includes coded data. The

printer includes a coded data generator configured to generate the coded data based at least partially on the identity data. A printing mechanism in the printer prints the interface onto the surface.

Type	Pub. Date	Kind	Text
Publication	20001130	A1	With international search report.
Examination	20010215		Request for preliminary examination prior to end of 19th month from priority date

III. Text Search Results from Dialog

A. Patent Files, Abstract

[File 350] **Derwent WPIX** 1963-2009/UD=200929

[File 347] **JAPIO** Dec 1976-2009/Jan(Updated 090503)


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; d s
Set     Items   Description
S1      10159   S (AUTOMAT?? OR COMPUTERI? OR DIGITAL? OR ELECTRONIC
OR LIGHT OR IMAGING OR OPTICAL?? OR NETPAGE OR SENSOR? ? OR
SPECIAL()PURPOSE)()(PEN OR STYLUS OR WRITING OR WRITER OR MARKER? ?
OR NIB OR NIBS OR PENCIL? ? OR STYLOGRAPH? ?)
S2     832461   S (CAPTUR??? OR RECORD??? OR COLLECT??? OR SAMPL???
OR RELATIONSHIP OR RELATIVE OR TRACK??? OR CALCULAT??? OR
TRIANGULAT??? OR MEASUR??? OR COMPUTE OR COMPUTES OR DETERMIN??? OR
CONVERT??? OR TRANSFORM??? OR AXIS) (5N) (MOVEMENT? ? OR POSITION? ?
OR LOCATION? ? OR SPATIAL?? OR STROKE? ? OR HANDWRITING OR WRITING OR
WRITE? ? OR MOTION? ? OR EVENT? ?)
S3     320972   S DIGITAL()INK OR INKING OR DIGITIZER? ? OR
ELECTROMAGNETIC
S4      91552   S (CODE? ? OR INKML OR DATA OR INFORMATION OR LABEL
OR LABELS OR LABELL??? OR TAG OR TAGS OR TAGG??? OR MARK??? OR
MARKINGS OR CODE OR CODES OR BARCODE? ? OR (HUMAN OR
MACHINE)()READABLE) (10N) (FEE OR FEES OR BILL??? OR INVOIC??? OR
CHARG??? OR INVOICE OR INVOICES OR PAYMENT OR PAYMENTS OR REMIT OR
REMITS OR REMITT? OR RENUMERAT??? OR REMUNERAT???)
S5       2469   S AU=(SILVERBROOK, K? OR SILVERBROOK K? OR
SILVERBROOK (1N) (K OR KIA) OR LAPSTUN, P? OR LAPSTUN P? OR LAPSTUN
(1N) (P OR PAUL) OR WALMSLEY, S? OR WALMSLEY S? OR WALMSLEY (1N) (S
OR SIMON) OR LAPSTUN, J? OR LAPSTUN J? OR LAPSTUN (1N) (J OR
JACQUELINE))
S6    1656104   S IC=(G06F OR G06Q)
S7       2142   S S1 AND S2
S8        118   S S7 AND S3
S9          5   S S8 AND S4
S10      2352   S S1 AND (S2 OR S3)
S11        35   S S10 AND S4
S12        30   S S11 NOT S9
S13        13   S S12 NOT AY>1999
S14       127   S S5 AND S1
S15       126   S S14 NOT (S9 OR S13)
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S16          73    S S15 AND S2
S17           6    S S16 AND S3
S18           0    S S17 AND S4
```

9/5/1 (Item 1 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0015360951 *Drawing available*
WPI Acc no: 2005-711219/200573
XRPX Acc No: N2005-583907
Digitizing method of data of electronic ink display, involves setting display element of ink display to one of several display states, and modifying display state of display element by writing to display with external device
Patent Assignee: LIEBENOW F (LIEB-I)
Inventor: LIEBENOW F

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050219224	A1	20051006	US 2004814377	A	20040331	200573	B

Priority Applications (no., kind, date): US 2004814377 A 20040331

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20050219224	A1	EN	13	8	

Alerting Abstract US A1
NOVELTY - The display element of an electronic ink display is set to one of several display states from data stored in a display memory (714), using a display driver circuit (712). The display state of display element is modified by writing to the display with an external device such as a charged stylus. The display element is read to determine if the display state has been modified.
DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

82. system for digitizing data written to electronic ink display; and
83. program for digitizing data written to electronic ink display.

USE - For digitizing of data written using hand held device **such** as **charged** pen or stylus, on electronic **ink** display of **electronic**-ink book, rewritable electronic business form or writing tablet, cash register, automated teller **machine** (ATM), digitizing pad used to **record** signature, tablet computer or notebook, personal digital assistant (PDA), cellular telephone, calculator, digital versatile disk (DVD) player, digital camera or camcorder.
ADVANTAGE - The overwriting of changes to display can be accomplished without involving the resources

computing system. Is designed to operate passively until the data entry process has been completed.
DESCRIPTION OF DRAWINGS - The figure shows the perspective view of electronic ink display.
700 electronic ink display
710 image
712 display driver circuit
714 display memory circuit
716 data

Title Terms /Index Terms/Additional Words: DIGITAL; METHOD; DATA; ELECTRONIC; INK; DISPLAY; SET; ELEMENT; ONE; STATE; MODIFIED; WRITING; EXTERNAL; DEVICE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G09G-0005/00	A	I		R	20060101
G09G-0005/00	C	I		R	20060101

US Classification, Current Main: 345-173000
US Classification, Issued: 345173
File Segment: EngPI; EPI;
DWPI Class: T04; P85
Manual Codes (EPI/S-X): T04-F02A5; T04-H03C9

9/5/4 (Item 4 from file: 350) **Links**
Fulltext available through: Order File History

0009297690 *Drawing available*
WPI Acc no: 1999-227985/199919
XRPX Acc No: N1999-168596
Battery powered touch pad digitizing control system for computer
Patent Assignee: TRITECH MICROELECTRONICS INT PTE LTD (TRIT-N)
Inventor: CHAN C F; GENG X; LIM S H A; NG M M L; ONG E Y

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5883622	A	19990316	US 1997785738	A	19970117	199919	B

Priority Applications (no., kind, date): US 1997785738 A 19970117

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 5883622	A	EN	10	4	

Alerting Abstract US A
NOVELTY - An autopower save circuit (160) creates an auto power down signal (165) that will be transferred to a power supply control and a regulator circuit (190) to restore the voltage and current, if a pen detect signal indicates that a pointed object is in contact with a touch pad surface (110).
DESCRIPTION - A touch pad computer interface is connected to a multiplexed analog-to-digital converter (130) and a pen detect circuit, to receive and **convert** the **location** digital codes (135), the set of pressure digital codes (157) and the pen detect signal. The interface also transmits a touch pad computer interface protocol to a computer system (185), for further processing. A battery (200) has a positive and negative connectors (192,196) to deliver a voltage and current to a touch pad pen input controller (100) and the computer system through the power supply controller and the regulator. A battery sense line (205) that senses the voltage and current of the battery, is an input of the analog to digital converter. The battery power digital codes (172) are transmitted to a battery gauge (170) which calculates battery condition digital codes (174) that provide an indication of the level of energy remaining within the battery and the rate of consumption of the battery. The battery condition digital codes are transmitted to the computer system by the touch pad computer interface. The autopower save circuit interprets the pen detect signal to determine, if the pointed object has not been a contact with the touch pad surface for a long period of time. INDEPENDENT CLAIMS are included for the following:

84. touch pad digitizing device;
85. method for **determining movement** of pen on touch **pad surface**

USE - For mobile, portable or lap top computer system.
ADVANTAGE - Reduces variation in digital codes indicating location of the pointed object due to vibration of the object in the human hand, by properly converting the digital codes. Maximizes operation time of computer systems by continuously monitoring the amount of energy remaining in the battery and the amount of energy consumed by the components of the computer system. Converts electrical responses to digital codes to interpret the information regarding pressure of the pen or stylus pen for detecting the end of a stroke for the formation of a character.
DESCRIPTION OF DRAWINGS - The figure shows a schematic diagram of the battery powered touch pad digitizing control system.
100 Controller
110 Touch pad surface
130 Multiplexed analog to digital converter
135 Location digital codes
157 Pressure digital codes
160 Auto power save circuit
165 Auto power down signal
170 Battery gauge
172,174 Digital codes
185 Computer system
190 Power supply control and regulator circuit
192,196 Positive and negative connectors
200 Battery
205 Battery sense line

Title Terms /Index Terms/Additional Words: BATTERY; POWER; TOUCH; PAD; CONTROL; SYSTEM; COMPUTER

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-0001/26	A	I		R	20060101
G06F-0001/32	A	I		R	20060101
G06F-0003/033	A	I		R	20060101
G06F-0001/26	C	I		R	20060101
G06F-0001/32	C	I		R	20060101
G06F-0003/033	C	I		R	20060101

ECLA: G06F-001/26, G06F-001/32P6, G06F-003/048A3
US Classification, Issued: 345173, 345174, 345211
File Segment: EngPI; EPI;
DWPI Class: T01; T04; U24; P85
Manual Codes (EPI/S-X): T01-C02B1D; T04-F02A2; T04-F02A5; U24-E01; U24-J

13/5/2 (Item 2 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0009274398 *Drawing available*
WPI Acc no: 1999-203235/199917
XRPX Acc No: N1999-149573
Integrated portable information recording/retrieving system for e.g. independent travelers
Patent Assignee: LIN A (LINA-I)
Inventor: LIN A

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5874947	A	19990223	US 1997844101	A	19970428	199917	B

Priority Applications (no., kind, date): US 1997844101 A 19970428

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 5874947	A	EN	8	6	

Alerting Abstract US A
NOVELTY - The integrated system comprises a **light pen** (14) to enter information on an **electronic writing** board (14A), a CCD camera (12) to record images and a microphone (141) disposed on the pen tip to record

vocal descriptions. The information entered to the system is recorded on to a CD (13A) and processed by an internal microprocessor (100) for subsequent retrieval and reproduction.
USE - For self service travelers.
ADVANTAGE - Provides a portable and integrated multimedia device, whereby a traveler can record their thoughts and the images of their journey. Obviates the requirement for several separate devices, such as notepad, camera and tape recorder, to be taken on a journey.
DESCRIPTION OF DRAWINGS - The drawing shows the architectural components of the system.
12 CCD camera
13A CD
14 **Light pen**
14A **Electronic writing** board
100 Microprocessor
141 Microphone

Title Terms /Index Terms/Additional Words: INTEGRATE; PORTABLE; INFORMATION; RECORD; RETRIEVAL; SYSTEM; INDEPENDENT

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-0001/16	A	I		R	20060101
G06F-0015/02	A	I		R	20060101
G06F-0003/033	A	I		R	20060101
G06F-0001/16	C	I		R	20060101
G06F-0015/02	C	I		R	20060101
G06F-0003/033	C	I		R	20060101

ECLA: G06F-001/16P3, G06F-003/033P2, G06F-015/02D
US Classification, Current Main: 345-169000; Secondary: 178-018030, 178-019050, 345-901000
US Classification, Issued: 345169, 345901, 17818.03, 17819.05
File Segment: EngPI; EPI;
DWPI Class: T01; T04; V06; W04; P85
Manual Codes (EPI/S-X): T01-C02B1H; T01-J05A2; T01-M06A1; T04-D02; T04-F02A1; V06-B02; V06-C; V06-E05; W04-C10A; W04-F01F; W04-G01A; W04-G01B; W04-M01B

13/5/7 (Item 7 from file: 350) **Links**
Fulltext available through: Order File History
Derwent WPIX

0007405675 *Drawing available*
WPI Acc no: 1996-012579/199602
Related WPI Acc No: 1990-269507; 1991-231557; 1992-168617; 1992-183278; 1992-381621; 1993-295556; 1993-296640; 1993-388111; 1994-001174; 1995-106261; 1995-139019; 1995-214843; 1995-366979; 1996-200492; 1996-427283; 1997-350434; 1997-363034; 1998-332318; 1999-023597; 1999-325837; 2000-021890; 2000-115294

XRPX Acc No: N1996-010726

Reading and decoding system for two-dimensional bar code with rows of coded information - uses CCD to optically image code symbol to obtain digital image data to be stored in memory and device for determining orientation of code symbol in image data

Patent Assignee: SYMBOL TECHNOLOGIES INC (SYMB-N)

Inventor: ITKIN S; METLITSKY B; NIKZAD A; SHELLHAMMER S J; SWARTZ J

Patent Family (3 patents, 4 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 685809	A2	19951206	EP 1995108539	A	19950602	199602	B
EP 685809	A3	19960410	EP 1995108539	A	19950602	199625	E
US 5635697	A	19970603	US 1989317533	A	19890301	199728	E
			US 1990461881	A	19900105		
			US 1992851493	A	19920316		
			US 199330971	A	19930312		
			US 199341281	A	19930330		
			US 1993126965	A	19930927		
			US 1994253694	A	19940603		

Priority Applications (no., kind, date): US 1989317533 A 19890301; US 1990461881 A 19900105; US 1992851493 A 19920316; US 199330971 A 19930312; US 199341281 A 19930330; US 1993126965 A 19930927; US 1994253694 A 19940603

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
EP 685809	A2	EN	35	17		
Regional Designated States,Original	DE FR GB IT					
EP 685809	A3	EN				
US 5635697	A	EN	26	17	Continuation of application	US 1989317533
					Division of application	US 1990461881
					C-I-P of application	US 1992851493
					C-I-P of application	US 199330971
					C-I-P of application	US 199341281
					C-I-P of application	US 1993126965
					Division of patent	US 5304786
					C-I-P of patent	US 5319181
					C-I-P of patent	US 5399846

Alerting Abstract EP A2

The system includes a two-dimensional imaging camera for optically imaging a bar code symbol to obtain lines of image data corresponding to a field of view including the bar code symbol. A memory stores the lines of image data. A device determines an orientation of the two-dimensional bar code symbol in the field of view by locating control codewords in at least two positions in the image data.

The system further includes a device for determining a sequence of lines passing through the rows of the bar code symbol in the image data from the orientation **determined** from the **position** of the control codewords. Finally a device scans the two-dimensional bar code symbol in the image data along the sequence of lines line to read the codewords.
ADVANTAGE - Reads and decodes bar code in any orientation. Allows defective code to be read, e.g. with damaged corner, scratch or stain.

Title Terms /Index Terms/Additional Words: READ; DECODE; SYSTEM; TWO; DIMENSION; BAR; CODE; ROW; INFORMATION; CCD; OPTICAL; IMAGE; SYMBOL; OBTAIN; DIGITAL; DATA; STORAGE; MEMORY; DEVICE; DETERMINE; ORIENT

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06K-007/00; G06K-007/10			Main		"Version 7"

ECLA: G06F-003/00B, G06K-001/12D, G06K-007/016D, G06K-007/10H, G06K-007/10S4D, G06K-007/14, G06K-019/06C3, H04N-001/00C
ICO: S06K-019:06W8, T04N-001:00C3, T04N-201:00C13, T04N-201:00C13B, T04N-201:00C13C, T04N-201:00C22, T04N-201:00D2M, T04N-201:00J2, T04N-201:00J3, T04N-201:00W2, T04N-201:32C10, T04N-201:32C4, T04N-201:32C6, T04N-201:32C7
US Classification, Current Main: 235-462110; Secondary: 235-470000, 235-471000
US Classification, Issued: 235462, 235470, 235471
File Segment: EPI;
DWPI Class: T04
Manual Codes (EPI/S-X): T04-A03B1

13/5/13 (Item 2 from file: 347) Links
Fulltext available through: Order File History

03359113 **Image available**
POSITION INFORMATION INPUT DEVICE

Pub. No.: 03-022013 [JP 3022013 A]
Published: January 30, 1991 (19910130)
Inventor: MIYABAYASHI TAKESHI
Applicant: BROTHER IND LTD [000526] (A Japanese Company or Corporation), JP (Japan)
Application No.: 01-158021 [JP 89158021]
Filed: June 19, 1989 (19890619)
International Class: [5] G06F-003/03; G06K-011/06
JAPIO Class: 45.3 (INFORMATION PROCESSING -- Input Output Units)
Journal: Section: P, Section No. 1190, Vol. 15, No. 149, Pg. 71, April 15, 1991 (19910415)

ABSTRACT
PURPOSE: To improve the resolution of an input position by using an optical memory element which is composed of a sheet- shaped storage battery and a photo-conductive switch or photo-electric **converting** element, inputting **position information** by **charging/** discharging the electric **charge** of the storage battery with the light irradiation of an light beam input pen and obtaining bit map information.

CONSTITUTION: The fixed quantity of electric energy is accumulated in respective sheet-shaped storage batteries 1 by an external power source 37 and afterwards, light beam irradiates from the upper direction of a photo-conductive switch 2 on the sheet- shaped storage battery 1 by a **light pen** 50, etc. Then, by setting the photo-conductive switch 2 in a ON state, the respective sheet-shaped storage batteries 1 are discharged corresponding to the resistance and ON time of the switch 2 according to the incidental intensity of the light. Thus, the accumulated electric charge quantity of the sheet- shaped storage batteries 1, which are divided into a lot of pieces, is distributed. In order to recognize this distribution as an optical latent image, the sheet-shaped storage batteries 1 are respectively discharged to a specified voltage and the bet map information are obtained. Thus, the resolution of the position information input is improved and density gradient can be also applied when a point and a line segment is inputted by hand-writing input, etc.

B. Patent Files, Full-Text

[File 348] **EUROPEAN PATENTS** 1978-200919

[File 349] **PCT FULLTEXT** 1979-2009/UB=20090507|UT=20090430


```
; d s
Set     Items   Description
S1       6563   S (AUTOMAT?? OR COMPUTERI? OR DIGITAL? OR ELECTRONIC
OR LIGHT OR IMAGING OR OPTICAL?? OR NETPAGE OR SENSOR? ? OR
SPECIAL()PURPOSE OR PHOTODIODE)()(PEN OR STYLUS OR WRITING OR WRITER
OR MARKER? ? OR NIB OR NIBS OR PENCIL? ? OR STYLOGRAPH? ?)
S2     628572   S (CAPTUR??? OR RECORD??? OR COLLECT??? OR SAMPL???
OR RELATIONSHIP OR RELATIVE OR TRACK??? OR CALCULAT??? OR
TRIANGULAT??? OR MEASUR??? OR COMPUTE OR COMPUTES OR DETERMIN??? OR
CONVERT??? OR TRANSFORM??? OR AXIS) (5N) (MOVEMENT? ? OR POSITION? ?
OR LOCATION? ? OR SPATIAL?? OR STROKE? ? OR HANDWRITING OR WRITING OR
WRITE? ? OR MOTION? ? OR EVENT? ?)
S3     163113   S DIGITAL()INK OR INKING OR DIGITIZER? ? OR
ELECTROMAGNETIC
S4     131707   S (INKML OR DATA OR INFORMATION OR LABEL OR LABELS OR
LABELL??? OR TAG OR TAGS OR TAGG??? OR MARK??? OR MARKINGS OR CODE OR
CODES OR BARCODE? ? OR (HUMAN OR MACHINE)()READABLE OR FORM? ? OR
DOCUMENT? ? OR TEMPLATE? ? OR CHARACTER? ?) (10N) (FEE OR FEES OR
BILL??? OR INVOIC??? OR CHARG??? OR INVOICE OR INVOICES OR PAYMENT OR
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PAYMENTS OR REMIT OR REMITS OR REMITT? OR RENUMERAT??? OR
REMUNERAT???)
S5      139405   S (SCREEN? ? OR WINDOW? ? OR MONITOR? ? OR DISPLAY???
OR TOUCHSCREEN? ? OR CHARACTER? ? OR SYSTEM? ? OR PROGRAM? ? OR
APPLICATION? ? OR SOFTWARE OR COMPUTER? OR AUTOMAT? OR ELECTRONIC?)
(10N) (FEE OR FEES OR BILL??? OR INVOIC??? OR CHARG??? OR INVOICE OR
INVOICES OR PAYMENT OR PAYMENTS OR REMIT OR REMITS OR REMITT? OR
RENUMERAT??? OR REMUNERAT???)
S6        1158   S AU=(SILVERBROOK, K? OR SILVERBROOK K? OR
SILVERBROOK (1N) (K OR KIA) OR LAPSTUN, P? OR LAPSTUN P? OR LAPSTUN
(1N) (P OR PAUL) OR WALMSLEY, S? OR WALMSLEY S? OR WALMSLEY (1N) (S
OR SIMON) OR LAPSTUN, J? OR LAPSTUN J? OR LAPSTUN (1N) (J OR
JACQUELINE))
S7      242967   S IC=(G06F OR G06Q)
S8        1177   S S1 (S) S2
S9         246   S S8 (S) S3
S10         10   S S9 (S) (S4 OR S5)
S11       1404   S S1 (S) (S2 OR S3)
S12         67   S S11 (S) (S4 OR S5)
S13         57   S S12 NOT S10
S14          8   S S13 NOT PY>1999
S15         67   S S10 OR S13
S16         26   S S15 AND S6
S17         17   S S16 NOT AY>2000
S18         15   S S17 AND S7
```

10/3K/8 (Item 6 from file: 349) **Links**
Fulltext available through: Order File History
PCT FULLTEXT

00534329
AUTOMATED DEVICES TO CONTROL EQUIPMENT AND MACHINES WITH REMOTE CONTROL AND ACCOUNTABILITY WORLDWIDE
DISPOSITIFS AUTOMATIQUES DE COMMANDE A DISTANCE DE MACHINES ET MATERIELS DE COMMANDE, UTILISABLES MONDIALEMENT

Patent Applicant/Patent Assignee:

86. **KLINE & WALKER LLC**;
; ;

87. **WALKER Richard C**;
; ;

	Country	Number	Kind	Date
Patent	WO	9965681	A1	19991223

Application	WO	99US13668		19990618
Priorities	US	9889783		19980618
	WO	99US919		19990115
	US	99122108		19990226
	US	99139759		19990615
	US	99149029		19990617

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English
Filing Language:
Fulltext word count: 80582

Detailed Description:

...in the future, this technology will develop and continually augment, its preprog rammed controls, communication **systems**, and functional peripheral devices, sensors and systems to be a part of the diverse equipment...involved. Time estimate, circa 2015, for fairly extensive and sophisticated social transportation and environmental control **systems**. This is a modest estimate for full robotics in an acceptable, accountable and/or societal...machine and piece of equipment world wide. This is to be done commercially to receive **fee** for use and control safe equipment use, assess risk, and help establish insurance rates in...systems will direct the ESCM for automated controlled steering. And any number of already described **automated** steer controls and brake system, either, C.O.T.S. interfaced or specially designed to... ...also, describe all the protected accountable systems PFN/TRAC, detailed in all the other related **applications**, that are needed to marry up to society's laws, rules, and regulations, as well...would be slowed by the load it will take to generate electricity which would also **charge** any electrical power storage **system**, i.e., battery. As a result the distance an electrical vehicle can travel will be...

14/3K/2 (Item 2 from file: 348) **Links**
Fulltext available through: Order File History
EUROPEAN PATENTS

00355533
Electronic blackboard having image display function.
Elektronisches schwarzes Brett mit Bildanzeigefunktion.
Tableau noir electronique avec fonction d'affichage d'image.

Patent Assignee:

88. **SONY CORPORATION**; (214022)
7-35, Kitashinagawa 6-chome Shinagawa-ku; Tokyo; (JP)
(applicant designated states: DE;FR;GB)

Inventor:

89. **Katoh, Naoya c/o Sony Corporation**
7-35, Kitashinagawa 6-chome Shinagawa-ku; Tokyo; (JP)

90. **Kakinuma, Koichiro c/o Sony Corporation**
7-35, Kitashinagawa 6-chome Shinagawa-ku; Tokyo; (JP)

91. **Naganuma, Tohru c/o Sony Corporation**
7-35, Kitashinagawa 6-chome Shinagawa-ku; Tokyo; (JP)

92. **Ando, Makoto c/o Sony Corporation**
7-35, Kitashinagawa 6-chome Shinagawa-ku; Tokyo; (JP)

93. **Majima, Osamu c/o Sony Corporation**
7-35, Kitashinagawa 6-chome Shinagawa-ku; Tokyo; (JP)

Legal Representative:

94. **TER MEER - MULLER - STEINMEISTER & PARTNER (100061)**
Mauerkircherstrasse 45; D-81679 Munchen; (DE)

	Country	Number	Kind	Date	
Patent	EP	372467	A2	19900613	(Basic)
	EP	372467	A3	19900926	
	EP	372467	B1	19940302	
Application	EP	89122373		19891205	
Priorities	JP	88310669		19881208	
	JP	89197797		19890729	

Designated States:
DE; FR; GB;

International Patent Class (V7): G03G-015/22; H04N-001/10; **Abstract Word Count:** 74

Type	Pub. Date	Kind	Text

Publication: English
Procedural: English
Application: English

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	280
CLAIMS B	(German)	EPBBF1	259
CLAIMS B	(French)	EPBBF1	352
SPEC B	(English)	EPBBF1	4796
Total Word Count (Document A) 0			
Total Word Count (Document B) 5687			
Total Word Count (All Documents) 5687			

Specification: ...easily transportable.

In normal use of this electronic blackboard, information may be written on the **write** surface W of the electrostatic **recording** medium 1 with, for example, a felt pen or the like. When it is desired... ...portion of the electrostatic recording medium 1 is driven to a rear portion of the **blackboard** so that information written thereon **can** be read by the CCD line **sensor 10** through the mirror 11 and the lens system 9. The visual information is converted into... ...through the document insertion slot 14a, and an electrostatic latent image is

formed on the **write** surface W of the electrostatic **recording** medium 1 by the recording head 6. The latent image is developed by the toner... ...adheres to the electrostatic latent image on the write surface W as it passes the **developer** roller 12, resulting in a **visible** image (toner image). As the recording medium 1 travels past the rear portion of the... ...away by the cleaning or doctor blade 8, and any charges or electrification on the **write** surface **W** of the **recording** medium 1 are removed by the AC **charge** remover 7.

While providing an operable **system**, such a conventional device nevertheless has amongst others the drawback that the size of the copy paper is limited to the small size **of** the hard copy image.

Accordingly, it is an object of the invention **to** provide an improved **electronic** blackboard including **an electronic** image **display** apparatus with the possibility to reproduce an image on the blackboard surface, i.e. the...

14/3K/3 (Item 3 from file: 348) **Links**
Fulltext available through: Order File History

00224931
Optical information writing method.
Verfahren zum Aufzeichnen von optischer Information.
Procede pour inscrire de l'information optique.

Patent Assignee:

95. **KABUSHIKI KAISHA TOSHIBA**; (213130)
72, Horikawa-cho Saiwai-ku; Kawasaki-shi Kanagawa-ken 210; (JP)
(applicant designated states: DE;FR;GB;NL)

Inventor:

96. **Miura, Akira c/o Patent Division**
Kabushiki Kaisha Toshiba 1-1 Shibaura 1-chome; Minato-ku Tokyo 105; (JP)

97. **Gemma, Nobuhiro c/o Patent Division**
Kabushiki Kaisha Toshiba 1-1 Shibaura 1-chome; Minato-ku Tokyo 105; (JP)

98. **Mizushima, Koichi c/o Patent Division**
Kabushiki Kaisha Toshiba 1-1 Shibaura 1-chome; Minato-ku Tokyo 105; (JP)

99. **Azuma, Makoto c/o Patent Division**
Kabushiki Kaisha Toshiba 1-1 Shibaura 1-chome; Minato-ku Tokyo 105; (JP)

100. **Iwakiri, Takano c/o Patent Division**
Kabushiki Kaisha Toshiba 1-1 Shibaura 1-chome; Minato-ku Tokyo 105; (JP)

Legal Representative:

101. **Freed, Arthur Woolf et al (30751)**
MARKS & CLERK 57-60 Lincoln's Inn Fields; London WC2A 3LS; (GB)

	Country	Number	Kind	Date	

Patent	EP	238759	A2	19870930	(Basic)
	EP	238759	A3	19890208	
	EP	238759	B1	19920311	
Application	EP	86309977		19861219	
Priorities	JP	8666276		19860325	
	JP	86129689		19860604	
	JP	86129692		19860604	

Designated States:
DE; FR; GB; NL;

International Patent Class (V7): G11B-007/24; G11B-007/00; G11B-013/00; **Abstract Word Count:** 94

Type	Pub. Date	Kind	Text

Publication: English
Procedural: English
Application: English

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	1660
CLAIMS B	(German)	EPBBF1	1627
CLAIMS B	(French)	EPBBF1	1785
SPEC B	(English)	EPBBF1	7004
Total Word Count (Document A) 0			
Total Word Count (Document B) 12076			
Total Word Count (All Documents) 12076			

Specification: ...provided an optical recording device as defined in Claim 27.

In accordance with the principle **of** the **information** multiplex **recording** of the third aspect, **charge** transfer is caused between donor and acceptor molecules of a specific combination **by** excitation **by** light having a specific wavelength, and between donor and acceptor molecules of another combination by... ...by light having another wavelength. In this third aspect, as a light source suitable for **information** recording, various types of gas **laser** ranging from ultraviolet to range, a dye laser which is pumped by various methods, a... ...to the wavelength, where the neutral state of the molecules constituting the recording medium layer **have** absorption bands.

In the recording medium according to **the** third aspect of the present invention, as a result of **charge** transfer by light irradiation onto the recording medium, the absorption spectrum of the molecules is... ...now exhibit absorption extending to the visible range, and molecules that exhibit absorption in the **visible** range in the neutral state now **exhibit** absorption extending to the infrared range. The reflectivity and refractive index of the recording medium... ...this case, according to the present invention, a plurality of combinations of donor and acceptor **molecule** films for **charge** transfer are provided. The respective combinations are excited by irradiating light having corresponding wavelengths, thus... ...high-density recording is enabled more effectively, compared to various types of conventional optical recording **devices** that perform **information** recording in a two-dimensional manner. Other advantages of the third aspect are the same... ...the recording state, i.e., the state wherein donor and acceptor molecules are ionized by **charge** transfer, more stably, a thin organic film (insulating molecule film) **containing** electrically inactive insulating molecules is preferably provided between the donor and acceptor molecule films. The...

14/3K/8 (Item 5 from file: 349) **Links**
Fulltext available through: Order File History
PCT FULLTEXT

00156260
SHOPPING CART DISPLAY SYSTEM
SYSTEME D'AFFICHAGE SUR ECRAN POUR CHARIOT A PROVISIONS

Patent Applicant/Patent Assignee:

102. **INFORMATION RESOURCES INC**;
; ;

103. **MALEC John**;
; ;

104. **MOSER Joseph Paul**;
; ;

	Country	Number	Kind	Date
Patent	WO	8902628	A1	19890323
Application	WO	88US3259		19880921
Priorities	US	87288		19870921

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English
Filing Language:
Fulltext word count: 21583

Detailed Description:

...and a keyboard 302. For ease of graphic image entry, an optional copy camera with **digitizer**, or document scanner 303 can be attached. For ease of graphic image editing, an optional pointing device (e.g., mouse or **light pen**) 308 can be attached. An optional display device 304 which emulates the SCD electronics 514... ...a printer or scent dispenser. An optional telephone modem 305 allows networking with a studio **billing** and control **computer** 400 at the central studio 103 for transfer of completed messages over a telephone line...

IV. Text Search Results from Dialog

A. NPL Files, Abstract

[File 139] **EconLit** 1969-2009/Apr
(c) 2009 American Economic Association. All rights reserved.

[File 2] **INSPEC** 1898-2009/May W1
(c)2009 Institution of Engineering &Technology. All rights reserved.

[File 35] **Dissertation Abs Online** 1861-2009/Apr
(c) 2009 ProQuest Info&Learning. All rights reserved.

[File 65] **Inside Conferences** 1993-2009/May 13
(c) 2009 BLDSC all rts. reserv. All rights reserved.

[File 99] **Wilson Appl. Sci & Tech Abs** 1983-2009/Apr
(c) 2009 The HW Wilson Co. All rights reserved.

[File 474] **New York Times Abs** 1969-2009/May 13
(c) 2009 The New York Times. All rights reserved.

[File 256] **TecInfoSource** 82-2009/Mar
(c) 2009 Info.Sources Inc. All rights reserved.

[File 475] **Wall Street Journal Abs** 1973-2009/May 13
(c) 2009 The New York Times. All rights reserved.

[File 583] **Gale Group Globalbase(TM)** 1986-2002/Dec 13
(c) 2002 Gale/Cengage. All rights reserved.
**File 583: This file is no longer updating as of 12-13-2002.*

```
; d s
Set     Items   Description
S1       1859   S (AUTOMAT?? OR COMPUTERI? OR DIGITAL? OR ELECTRONIC
OR LIGHT OR IMAGING OR OPTICAL?? OR NETPAGE OR SENSOR? ? OR
SPECIAL()PURPOSE OR PHOTODIODE OR SENSING OR SCAN? ? OR
SCANN??)()(PEN OR STYLUS OR WRITING OR WRITER OR MARKER? ? OR NIB OR
NIBS OR PENCIL? ? OR STYLOGRAPH? ?)
S2     367628   S (CAPTUR??? OR RECORD??? OR COLLECT??? OR SAMPL???
OR RELATIONSHIP OR RELATIVE OR TRACK??? OR CALCULAT??? OR
TRIANGULAT??? OR MEASUR??? OR COMPUTE OR COMPUTES OR DETERMIN??? OR
CONVERT??? OR TRANSFORM??? OR AXIS) (5N) (MOVEMENT? ? OR POSITION? ?
OR LOCATION? ? OR SPATIAL?? OR STROKE? ? OR HANDWRITING OR WRITING OR
WRITE? ? OR MOTION? ? OR EVENT? ? OR ORIENTATION? ? OR ORIENTAT??? OR
ALIGNMENT OR ANGLE OR ALIGN??)
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S3      346581   S DIGITAL()INK OR INKING OR DIGITIZER? ? OR
ELECTROMAGNETIC
S4      167270   S (INKML OR DATA OR INFORMATION OR LABEL OR LABELS OR
LABELL??? OR TAG OR TAGS OR TAGG??? OR MARK??? OR MARKINGS OR CODE OR
CODES OR BARCODE? ? OR (HUMAN OR MACHINE)()READABLE OR FORM? ? OR
DOCUMENT? ? OR TEMPLATE? ? OR CHARACTER? ? OR PARAMETER? ? OR FIELD?
? OR IDENTIFIER? ?) (10N) (FEE OR FEES OR BILL??? OR INVOIC??? OR
CHARG??? OR INVOICE OR INVOICES OR PAYMENT OR PAYMENTS OR REMIT OR
REMITS OR REMITT? OR RENUMERAT??? OR REMUNERAT???)
S5      148144   S (SCREEN? ? OR WINDOW? ? OR MONITOR? ? OR DISPLAY???
OR TOUCHSCREEN? ? OR CHARACTER? ? OR SYSTEM? ? OR PROGRAM? ? OR
APPLICATION? ? OR SOFTWARE OR COMPUTER? OR AUTOMAT? OR ELECTRONIC?)
(10N) (FEE OR FEES OR BILL??? OR INVOIC??? OR CHARG??? OR INVOICE OR
INVOICES OR PAYMENT OR PAYMENTS OR REMIT OR REMITS OR REMITT? OR
RENUMERAT??? OR REMUNERAT??? OR SETTLEMENT OR SETTL??? OR
PRESENTMENT)
S6          96   S AU=(SILVERBROOK, K? OR SILVERBROOK K? OR
SILVERBROOK (1N) (K OR KIA) OR LAPSTUN, P? OR LAPSTUN P? OR LAPSTUN
(1N) (P OR PAUL) OR WALMSLEY, S? OR WALMSLEY S? OR WALMSLEY (1N) (S
OR SIMON) OR LAPSTUN, J? OR LAPSTUN J? OR LAPSTUN (1N) (J OR
JACQUELINE))
S7         203   S S1 AND (S2 OR S3)
S8           2   S S7 AND (S4 OR S5)
S9          33   S S1 AND S3
S10          0   S S9 AND (S4 OR S5)
S11         25   S S1 AND (S4 OR S5)
S12         23   S S11 NOT S8
S13         18   S S12 NOT PY>2000
S14         18   RD  (unique items)
S15          0   S S6 AND S1
S16          0   S S6 AND S3
```

8/5/1 (Item 1 from file: 2) **Links**
Fulltext available through: STIC Full Text Retrieval Options
INSPEC

08777479
Title: Demonstration of a frequency-demodulation CMOS image sensor
Author(s): Yamamoto, K.; Kagawa, K.; Ohta, J.; Nunoshita, M.; Yamasaki, Y.; Watanabe, K.
Author Affiliation: Graduate Sch. of Mater. Sci., Nara Inst. of Sci. & Technol., Ikoma, Japan
Journal: Proceedings of the SPIE - The International Society for Optical Engineering , vol.5017 , pp.24-9
Publisher: SPIE-Int. Soc. Opt. Eng
Country of Publication: USA
Publication Date: 2003
Conference Title: Sensors and Camera Systems for Scientific, Industrial, and Digital Photography

Applications IV
Conference Date: 21-23 Jan. 2003
Conference Location: Santa Clara, CA, USA
Conference Sponsor: SPIE Soc. Imaging Sci. & Technol
ISSN: 0277-786X
SICI: 0277-786X(2003)5017L.24:DFDC;1-7
CODEN: PSISDG
U.S. Copyright Clearance Center Code: 0277-786X/03/$15.00
Item Identifier (DOI): 10.1117/12.476788
Language: English
Document Type: Conference Paper in Journal (PA)
Treatment: Practical (P); Experimental (X)
Abstract: A frequency-demodulation CMOS image sensor for capturing images only by the modulated light is proposed and demonstrated. The pixel circuit has two FD (floating diffusion) for accumulating signal charges and one photo-gate for detecting the modulated light and the background light. By operating the image sensor synchronously with a frequency and a phase of the modulated light, signal charges generated by the modulated light and the background light are accumulated at FD of one side, while signal charges generated only by the background light are accumulated at another FD, respectively. By subtracting outputs of two FD with the off-chip subtraction circuits, images produced only by the modulated light can be obtained. Based on the proposed circuit, an image sensor with 64 x 64 pixels is fabricated by using 0.6 mum CMOS technology. We captured images by using this image sensor and demonstrate the sensor can capture images only by the modulated light. When the object is partially illuminated by the modulated illumination under constant background illumination, we can successfully demonstrate the image sensor captures the potion illuminated by the modulated light with removing any static background light. Also we demonstrate the marker detection. When the marker is attached to an object under several background illuminations, the image sensor can extract the marker without affected by the background illumination intensities. A **motion capturing** is successfully demonstrated by use of this sensor (*6 refs.*)
Subfile(s): B (Electrical & Electronic Engineering)
Descriptors: CMOS image sensors; demodulation; optical modulation
Identifiers: frequency-demodulation CMOS image sensor; modulated light; floating diffusion; modulated illumination; static background **light**; **marker** detection; **motion capturing**; signal **charges**; photo-gate; background light; off-chip subtraction circuits; 64 pixel; 0.6 micron
Classification Codes: B7230G (Image sensors); B2570D (CMOS integrated circuits)
Numerical Indexing: picture size: 6.4E+01 pixel; size: 6.0E-07 m
INSPEC Update Issue: 2003-044

14/5/1 (Item 1 from file: 2) **Links**
INSPEC

08092572
Title: Optical modulation of stored charges in single floating quantum dot gate field-effect transistor memory cell
Author(s): Shima, M.; Sakuma, Y.; Sugiyama, Y.; Awano, Y.; Yokoyama, N.
Author Affiliation: Fujitsu Ltd., Atsugi, Japan
Book Title: 2000 IEEE International Symposium on Compound Semiconductors. Proceedings of the IEEE Twenty-Seventh International Symposium on Compound Semiconductors (Cat. No.00TH8498)

Inclusive Page Numbers: 315-19
Publisher: IEEE, Piscataway, NJ
Country of Publication: USA
Publication Date: 2000
Conference Title: 2000 IEEE International Symposium on Compound Semiconductors Proceedings of the IEEE Twenty-Seventh International Symposium on Compound Semiconductors
Conference Date: 2-5 Oct. 2000
Conference Location: Monterey, CA, USA
ISBN: 0 7803 6258 6
U.S. Copyright Clearance Center Code: 0 7803 6258 6/2000/$10.00
Item Identifier (DOI): 10.1109/ISCS.2000.94717 5
Number of Pages: xx+530
Language: English
Document Type: Conference Paper (PA)
Treatment: Practical (P); Experimental (X)
Abstract: **Optical writing** operations of a tetrahedral-shaped recess field-effect transistor memory cell with a single floating quantum dot gate were investigated and compared with its electrical writing operations. Optical modulation of the 1 to 10 holes stored in a single quantum dot was demonstrated, indicating the possibility of designing new high-sensitivity and high-density optoelectronic memories (*11 refs.*)
Subfile(s): A (Physics); B (Electrical & Electronic Engineering)
Descriptors: field effect transistors; integrated optoelectronics; optical modulation; optical storage; semiconductor quantum dots
Identifiers: tetrahedral-shaped recess **field**-effect transistor memory cell ; single floating quantum dot gate; stored **charges**; optical modulation; **optical writing**; high-density optoelectronic memories
Classification Codes: A4280T (Optical storage and retrieval); A4280K (Optical beam modulators); B4120 (Optical storage and retrieval); B2560S (Other field effect devices); B4270 (Integrated optoelectronics)
INSPEC Update Issue: 2001-045

14/5/2 (Item 2 from file: 2) **Links**
Fulltext available through: STIC Full Text Retrieval Options
INSPEC

07485676
Title: Hand-held scanner to go
Author(s): Medina, M.
Journal: Imaging & Document Solutions , vol.9 , no.1 , pp.18
Publisher: Miller Freeman
Country of Publication: USA
Publication Date: Jan. 2000
ISSN: 1083-2912
SICI: 1083-2912(200001)9:1L.18:HHS;1-P
CODEN: IMMAFZ
Language: English
Document Type: Journal Paper (JP)
Treatment: Practical (P); Product Review (R)
Abstract: Mobile professionals and ordinary working people who occasionally need a portable scanner

have had few options in the past. Small sheet-fed scanners such as the Visioneer PaperPort provide quality scans, but they have to be hooked up to a PC or a laptop. Pen scanners are battery-powered, pocket-size devices that let you capture and store short bits of text such as URLs, business cards, paragraphs from the newspaper, **billing information** or addresses. IRIS and Siemens are among the companies that make such scanners. The latest in the pen category is the QuickLink, a six-inch, three-ounce wand from Wizcom Technologies (www.wizcomtech.com). Because of its size and AAA battery power, the QuickLink can be carried just about anywhere. It comes in a neat carrying case, just like a Mountebank. It's priced modestly at $149 (batteries, serial cable and software included). QuickLink did very well reading normal (Roman) type and numbers, which makes this scanner ideal for **billing** purposes. It was good with **display** fonts and bold type, but italics were more problematic *(0 refs.)*
Subfile(s): D (Information Technology for Business)
Descriptors: buyer's guides; equipment evaluation; image scanners
Identifiers: hand-held scanner; portable **scanner**; **pen** scanners; Wizcom Technologies QuickLink; **billing**; **display fonts**; bold type; italics
Classification Codes: D5030 (Printers and other peripherals for office automation); D3045 (Records management systems for business automation)
INSPEC Update Issue: 2000-005

14/5/3 (Item 3 from file: 2) **Links**
Fulltext available through: STIC Full Text Retrieval Options

07013381
Title: Electronic court filing in the Pima County small claims court-technical parameters, adopted solutions, and some of the legal issues involved
Author(s): Cotter, B.P.; Messing, J.H.
Author Affiliation: US Nucl. Regulatory Comm., Washington, DC , USA
Journal: Jurimetrics: Journal of Law, Science and Technology , vol.38 , no.3 , pp.397-406
Publisher: American Bar Assoc
Country of Publication: USA
Publication Date: Spring 1998
ISSN: 0897-1277
SICI: 0897-1277(199821)38:3L.397:ECFP;1-N
CODEN: JURIFF
Language: English
Document Type: Journal Paper (JP)
Treatment: Practical (P)
Abstract: The article focuses on the efforts of one court of limited jurisdiction, the small claims division of the Pima County Consolidated Justice Court, located in Tucson, Arizona, to create a fully operational electronic court filing system using one of the most practical, efficient and generally acceptable authentication and electronic signing techniques available today. The software was designed and written by John Messing, one of the authors. The **system** includes **automated** credit card **payment** of filing **fees** for initial complaints and answers, **computerized** authentication for subsequent pleadings, access control and **digital markers** to meet signature requirements, and digitally signed filing receipts for all successful filings that are instantly and automatically dispatched via e-mail over the Internet to the filing parties. The article provides a brief overview of the nature of the Pima County court, the criteria that were actually considered

and adopted for the filing system, and some of the technological solutions that were adopted. In addition, some of the legal issues raised by these solutions are examined. More specifically, the article considers whether the adopted method to create on-line signatures for the various filing parties is consistent with common law and Arizona law of signatures (*36 refs.*)
Subfile(s): C (Computing & Control Engineering); E (Mechanical & Production Engineering)
Descriptors: EFTS; electronic mail; Internet; law administration; message authentication
Identifiers: electronic court filing; Pima County small claims court; legal issues; Pima County Consolidated Justice Court; Tucson; **electronic** signing techniques; software; automated credit card **payment**; filing **fees**; **computerized** authentication; pleadings; access control; **digital markers**; digitally signed filing receipts; e-mail; Internet; Arizona law; common law
Classification Codes: C7130 (Public administration); C5620W (Other computer networks); C6150N (Distributed systems software); C7104 (Office automation); C7120 (Financial computing); C6130S (Data security); E0410F (Business applications of IT)
INSPEC Update Issue: 1998-035

14/5/4 (Item 4 from file: 2) **Links**
Fulltext available through: STIC Full Text Retrieval Options

06902899
Title: Electron-optics method for high-throughput in a SCALPEL system: preliminary analysis
Author(s): Waskiewicz, W.K.; Harriott, L.R.; Liddle, J.A.; Stanton, S.T.; Berger, S.D.; Munro, E.; Zhu, X.
Author Affiliation: Bell Labs., Lucent Technol., Murray Hill, NJ, USA
Journal: Microelectronic Engineering , vol.41-42 , pp.215-18
Publisher: Elsevier
Country of Publication: Netherlands
Publication Date: March 1998
Conference Title: Micro- and Nano- Engineering 97. MNE International Conference on Micro- and Nanofabrication
Conference Date: 15-18 Sept. 1997
Conference Location: Athens, Greece
ISSN: 0167-9317
SICI: 0167-9317(199803)41/42L.215:EOMH;1-E
CODEN: MIENEF
Document Number: S0167-9317(98)00049-5
U.S. Copyright Clearance Center Code: 0167-9317/98/$19.00
Language: English
Document Type: Conference Paper in Journal (PA)
Treatment: Practical (P); Experimental (X)
Abstract: A likely technology to supplant optical tools for the manufacturing of sub-0.13 mum design rule ICs is one based upon SCALPEL(R) (scattering with angular limitation projection electron-beam lithography). One serious barrier to the acceptance of any lithographic technique by the IC manufacturing community is an inability to provide economically viable wafer throughput levels. Using a simple, parametric, time-utilization model of a step-and-**scan writing** strategy, we have identified the areas of greatest influence on throughput in a SCALPEL **system**. Though issues such as stage speed, resist sensitivity, and space **charge**-limited beam current do constrain the problem, we have found that the

effective size of the printing field is the most sensitive parameter for realizing high throughput levels in SCALPEL. In this paper, we present an electron-optical method for attaining high throughput in a SCALPEL-based exposure tool. Starting with a moderately large area beam (1 mmx1 mm) at the mask plane and simple, telecentric reduction (4x) optics, we have investigated increasing the effective printed field size through a combination of beam deflections, image stitching, and dynamic corrections. A preliminary analysis of recent modeling results indicates that a 3 mmx3 mm effective field size at the wafer can be achieved while maintaining beam blur within manageable limits. The extensibility of this electron-optical approach to a production-worthy level of wafer throughput is presented, including the potential impact on other system parameters (*4 refs.*)
Subfile(s): B (Electrical & Electronic Engineering); E (Mechanical & Production Engineering)
Descriptors: electron beam lithography; electron optics; electron resists; integrated circuit design; integrated circuit yield; masks; semiconductor process modelling; sensitivity
Identifiers: electron-optics method; throughput; SCALPEL system; IC design rule; scattering with angular limitation projection electron-beam lithography; lithographic technique; IC manufacturing; economically viable wafer throughput; parametric time-utilization model; step-and-**scan writing** strategy; stage speed; resist sensitivity; space **charge**-limited beam current; effective printing **field** size; electron-optical method; SCALPEL-based exposure tool; mask plane; telecentric reduction optics; effective printed field size; beam deflection; image stitching; dynamic corrections; wafer effective field size; modeling; beam blur ; wafer throughput; system parameters; 0.13 micron; 1 mm; 3 mm
Classification Codes: B2550G (Lithography (semiconductor technology)); B0170E (Production facilities and engineering); B0170N (Reliability); B2570A (Semiconductor integrated circuit design, layout, modelling and testing); E1020 (Maintenance and reliability); E1520 (Manufacturing processes)
Numerical Indexing: size: 1.3E-07 m; size: 1.0E-03 m; size: 3.0E-03 m
INSPEC Update Issue: 1998-018

14/5/5 (Item 5 from file: 2) **Links**
INSPEC

05179479
Title: Stimulated electronic transition concept for an erasable optical memory
Author(s): Albin, S.; Satira, J.D.; Livingston, L.; Shull, T.A.
Author Affiliation: Dept. of Electr. & Comput. Eng., Old Dominion Univ., Norfolk, VA, USA
Journal: Japanese Journal of Applied Physics, Part 1 (Regular Papers & Short Notes) , vol.31 , no.2B , pp.715-19
Country of Publication: Japan
Publication Date: Feb. 1992
ISSN: 0021-4922
CODEN: JAPNDE
Language: English
Document Type: Journal Paper (JP)
Treatment: New Development (N); Experimental (X)
Abstract: A new concept for an erasable optical memory is demonstrated using stimulated electronic transition (SET). Large bandgap semiconductors are suitable materials for the SET medium. The authors have investigated the properties of MgS:Eu, Sm and SrS:Eu, Sm as possible media for the SET process. Quantum storage is achieved in the **form** of **charges** in deep levels in the medium and stimulated radiative recombination is used as the reading process. Unlike magneto-optic (M-O) and phase change (PC) processes,

optical writing, reading and erasing are achieved without localized heating. The SET process has an inherently faster data transfer rate and a higher storage density, and the medium is more durable than the M-O and PC media. A possible application of the SET process in neural networks is also discussed (*13 refs.*)
Subfile(s): A (Physics)
Descriptors: deep levels; europium; magnesium compounds; optical storage; samarium; semiconductor materials; strontium compounds
Identifiers: large bandgap semiconductors; optical reading; optical erasing; erasable optical memory; stimulated electronic transition; deep levels; stimulated radiative recombination; reading process; **optical writing**; data transfer rate; storage density; neural networks; SrS:Eu, Sm; MgS:Eu, Sm
Classification Codes: A4230N (Optical storage and retrieval); A7820W (Other optical properties of condensed matter)
Chemical Indexing:
MgS:Eu,Sm/ss - Eu/ss - Mg/ss - Sm/ss - S/ss - MgS/bin - Mg/bin - S/bin - Eu/el - Sm/el - Eu/dop - Sm/dop
SrS:Eu,Sm/ss - Eu/ss - Sm/ss - Sr/ss - S/ss - SrS/bin - Sr/bin - S/bin - Eu/el - Sm/el - Eu/dop - Sm/dop
INSPEC Update Issue: 1992-030

14/5/7 (Item 7 from file: 2) **Links**
Fulltext available through: STIC Full Text Retrieval Options
INSPEC

04301394
Title: Touch panel market expected to grow to 2 billion yen this year
Journal: JEE (Journal of Electronic Engineering) , vol.25 , no.261 , pp.76-8
Country of Publication: Japan
Publication Date: Sept. 1988
ISSN: 0385-4507
CODEN: JEENDL
Language: English
Document Type: Journal Paper (JP)
Treatment: Economic (E); Practical (P)
Abstract: The applications for touch panel input devices, which permit data input by touching display screens directly, are becoming widespread. As touch input applications have increased together with those for the mouse, **light pen** and voice recognition input system to replace the keyboard system, and as software for touch panel systems has been developed, systems using touch input systems have been developed one after another (*0 refs.*)
Subfile(s): B (Electrical & Electronic Engineering); C (Computing & Control Engineering); E (Mechanical & Production Engineering)
Descriptors: computer peripheral equipment; DP industry; economics; touch sensitive screens
Identifiers: touch panel input devices; data input; display screens; keyboard system; software
Classification Codes: B7260 (Display technology); B0140 (Administration and management); C5540B (Interactive-input devices); C0230 (Economic, social and political aspects of computing); E0120K (Financial management); E3644E (Computer and peripheral industry); E3644N (Optoelectronics manufacturing)
INSPEC Update Issue: 1989-005

14/5/8 (Item 8 from file: 2) **Links**
INSPEC

03143458
Title: The clinically oriented laboratory data base
Author(s): Wertlake, P.I.; Fleming, J.
Author Affiliation: Dept. of Pathology, Univ. of Texas Medical School, Houston, TX, USA
Inclusive Page Numbers: 698-705 vol.2
Publisher: Hawaii Int. Conference Syst. Sci, Hawaii
Country of Publication: USA
Publication Date: 1982
Conference Title: Proceedings of the Fifteenth Hawaii International Conference on System Sciences 1982
Conference Date: 6-8 Jan. 1982
Conference Location: Honolulu, HI, USA
Conference Sponsor: Univ. Hawaii Univ. Southwestern Louisiana
Editor(s): Riddle, W.; Thurber, K.; Keen, P.; Sprague, R.H., Jr.; Shriver, B.; Walker, T.M.; Grams, R.R.
Number of Pages: 2 vol. (xiii+916+xvii+778)
Language: English
Document Type: Conference Paper (PA)
Treatment: Practical (P)
Abstract: Discusses how a need by clinical laboratories for information reflecting the clinical experience can be met in part by utilizing **charge information** presently available in business **systems**. This **information** can be transferred by magnetic tape with avoidance of significant labor. Diagnostic studies can be identified facilitating more expeditious sourcing of this information however labor intensive procedures may be required for entry due to absence of data processing system support. Such diagnostic information may be SNOMED coded for laboratory system utilization. Data entry may be facilitated by **light pen** entry through CRTs or design of mark sense card entry. Discharge diagnoses may be available in ICD-CM code. This approach appears to be feasible in virtually any hospital since all require billing services. This approach is available even to clinical laboratories not having laboratory computer systems for current patients. Although updating is limited to once a day this represents a substantial improvement of clinical information available to clinical laboratories (*0 refs.*)
Subfile(s): C (Computing & Control Engineering)
Descriptors: medical administrative data processing
Identifiers: clinically oriented laboratory data base; **charge** information; business **systems**; magnetic tape; **data** processing **system** support; SNOMED coded; laboratory **system**; hospital; **billing** services
Classification Codes: C7140 (Medical administration)
INSPEC Update Issue: 1983-012
Copyright: 1983, IEE

14/5/9 (Item 9 from file: 2) **Links**
INSPEC

02536843
Title: Will data acquisition become direct entry?
Author(s): Schmidhausler, F.J.

Journal: Online-ADL-Nachrichten , no.1-2 , pp.22-5
Country of Publication: West Germany
Publication Date: Jan.-Feb. 1980
CODEN: OANADK
Language: German
Document Type: Journal Paper (JP)
Treatment: Practical (P)
Abstract: Data entry systems fall into 9 categories, such as 1) manual or machine-transcription of **data** to **invoices**, not **machine-readable**; 2) manual transcription of **data** to **invoices** which are **machine-readable**; 3) machine transcription of **data** to **invoices** which are **machine-readable**; 4) preparation of **data**, mainly **labels** for goods in machine-readable format, bar-codes or OCR; 5) processing of documents which were prepared by technique under 2 or 3 in batch mode; 6) reading of labels prepared by method 4; 7) keying in of data into a device; 8) **light pen** entry on a VDU; 9) direct acoustic (verbal) entry, currently in experimental stage with limited vocabulary. This article surveys the hardware, OCR readers, keyboards, point-of-sales terminals and acoustic couplers (*0 refs.*)
Subfile(s): C (Computing & Control Engineering)
Descriptors: data acquisition
Identifiers: **data** acquisition; direct entry; manual transcription of **data**; **invoices**; OCR; **light pen** entry ; bar **codes**; POS
Classification Codes: C5520 (Data acquisition equipment and techniques)
INSPEC Update Issue: 1980-008

14/5/10 (Item 10 from file: 2) **Links**
INSPEC

01681825
Title: Light-pen editor for silicon storage tube display system
Author(s): Dorsey, D.P.; Rodda, W.E.
Country of Publication: USA
Publication Date: Feb. 1974
Issued By: RCA, Princeton, NJ, USA
Report Number: TN-954
Number of Pages: 3
Language: English
Document Type: Report (RP)
Treatment: Application (A)
Abstract: In the proposed system, a **light-pen** is coupled to the storage target substrate and beam control grid of the electron gun in such a manner that charge placed on the insulating surface is selectively removed. To do this under normal READ bias conditions, with the television monitor displaying the stored image, the **light-pen** is placed against the monitor's protective-face-plate and directed at any illuminated spot of the image. The circuitry shown in the drawing then generates a narrow pulse every time the electron beam of the monitor passes the `pick-off' point of the **light-pen**. Using the system's synchronizing system as X and Y coordinates, the **light-pen** signal can be spatially located with respect to the corresponding insulated storage elements of the target of the silicon storage tube. The **light-pen** signal is fed to the substrate and beam control grid through special networks to thereby remove the insulator charge from only the storage elements corresponding to the illuminated area selected by the **light-pen**. In this manner, the positive charge of such

area is selectively removed by discharging the area to cathode potential
Subfile(s): B (Electrical & Electronic Engineering); C (Computing & Control Engineering)
Descriptors: cathode-ray tube displays; image storage tubes; light pens
Identifiers: storage target substrate; beam control; television **monitor**; **light pen** editor; silicon storage tube **display**; selective removal of **charge**; circuit diagram; removal of portions of image
Classification Codes: B2360 (Electron beam scanned tubes); B7230 (Sensing devices and transducers); B7250G (Display, recording and indicating instruments); C3210B (Recorders and indicators for control systems); C5540 (Terminals and graphic displays)
INSPEC Update Issue: 1974-009

14/5/11 (Item 11 from file: 2) **Links**
Fulltext available through: STIC Full Text Retrieval Options
INSPEC

01574865
Title: Automatic scales for studying magnetic susceptibility
Author(s): Kolesov, Yu.R.; Ivleva, I.N.; Zelenov, N.A.; Tuflin, A.K.; Borod'ko, Yu.G.; Gal'perin, L.N.
Author Affiliation: Inst. Chem. Phys., Acad. Sci., USSR
Journal: Pribory i Tekhnika Eksperimenta , vol.16 , no.1 , pp.217-18
Country of Publication: USSR
Publication Date: Jan.-Feb. 1973
ISSN: 0032-8162
CODEN: PRTEAJ
Translation Journal: Instruments and Experimental Techniques, vol.16, no.1, pp.265-6
Publication Date of Translation Journal: Jan.-Feb. 1973
Country of Publication of Translation Journal: USA
CODEN of Translation Journal: INETAK
ISSN of Translation Journal: 0020-4412
Language: English
Document Type: Journal Paper Translation Abstracted (JP)
Treatment: Practical (P)
Abstract: Automatic scales are described for studying the kinetics of the magnetic susceptibility according to the Faraday and Gouy methods with a **settling** time of the weighing **system** equal to 0.04 and 0.15 sec, respectively, and a sensitivity 2.5×10^{-5} g per division of the **automatic pen** recorder (*4 refs.*)
Subfile(s): A (Physics)
Descriptors: balances; magnetic susceptibility; magnetic variables measurement
Identifiers: Faraday method; Gouy method; **automatic** scales; magnetic susceptibility; kinetics; settling time; sensitivity; **automatic pen** recorder
Classification Codes: A0755 (Magnetic instruments and techniques)
INSPEC Update Issue: 1973-010

14/5/12 (Item 12 from file: 2) **Links**
Fulltext available through: STIC Full Text Retrieval Options
INSPEC

01019499
Title: High-speed automatic writing machine
Journal: Mechanised Accounting and Computer Management , vol.3 , no.12 , pp.23
Country of Publication: UK
Publication Date: 15 Dec. 1968
ISSN: 0374-3772
CODEN: MCMAB5
Language: English
Document Type: Journal Paper (JP)
Abstract: A new high-speed **automatic writing** machine, incorporating a 300 characters-per-second paper tape reader and a 70 characters-per-second punch, has been introduced by Farrington **Data** Processing Limited. **Applications** include **computer** input preparation, **invoice** and purchase order writing, despatch documentation, repetitive sales letters, production scheduling, price and parts lists, overdue accounts reminders, computer output printing and OCR document preparation
Subfile(s): C (Computing & Control Engineering)
Descriptors: punched tape equipment
Classification Codes: C5560 (Data preparation equipment)
INSPEC Update Issue: 1969-002

14/5/13 (Item 13 from file: 2) **Links**
INSPEC

00344411
Title: The spreading of an electron optical pencil under the influence of its own charge
Author(s): Wendt, G.
Journal: Annalen der Physik , vol.2 , no.5-6 , pp.256-264
Country of Publication: Germany
Publication Date: 1948
Language: German
Document Type: Journal Paper (JP)
Abstract: Previous analyses have assumed either a parallel beam or one which converges to a geometric point. The present study considers the general case of a **field**-free space (except for the moving **charges**) and a constant **charge** density across the beam.
Subfile(s): A (Physics); B (Electrical & Electronic Engineering)
Descriptors: electron beams; space charge
Identifiers: electron beams; space charge
Classification Codes: A0780 (Electron and ion microscopes and techniques); B2300 (Electron tubes)

14/5/14 (Item 1 from file: 99) **Links**
Fulltext available through: STIC Full Text Retrieval Options
Wilson Appl. Sci & Tech Abs

2388890 **H.W. Wilson Record Number:** BAST90033489
The father of computer graphics

Augmented Title: Sketchpad and Ivan Sutherland
Bissell, Don ;
Byte v. 15 (June 1990) p. 380-1
Document Type: Feature Article **ISSN:** 0360-5280 **Language:** English **Record Status:** Corrected or revised record

Abstract: With his 1960 doctoral thesis, "Sketchpad: A Man-Machine Graphical Communication System," MIT student Ivan Sutherland set the stage for today's $1.6 **billion computer**-aided drafting industry. At the heart of his thesis was a film that showed him drawing a bolt using Sketchpad, essentially a complete CAD software package, on the TX-2 computer. He used a **light pen** to provide coordinates corresponding to the drawing commands that he entered on the keyboard. With Sketchpad, Sutherland could recall previously drawn display primitives to the screen, and he was able to rotate, scale, copy, and erase them. Drawings created with Sketchpad were stored on magnetic tape. Sutherland's work caused many to choose interactive computer graphics as a career field and influenced the military and commercial organizations to invest in computer graphics research and development. Today, Dr. Sutherland is known as the "Father of Computer Graphics.".

Descriptors: Interactive graphics; Computers--History ;

14/5/15 (Item 2 from file: 99) **Links**
Fulltext available through: STIC Full Text Retrieval Options
Wilson Appl. Sci & Tech Abs

1243839 **H.W. Wilson Record Number:** BAST95039575
Computer-aided design; moving beyond the electronic pencil

Basta, Nicholas ;
Chemical Engineering v. 102 (June '95) p. 135-8
Document Type: Feature Article **ISSN:** 0009-2460 **Language:** English **Record Status:** New record

Abstract: Photorealism is pushing CAD in one direction, while object oriented programming is pushing it in another. CAD vendors are responding to chemical process industry requirements with products such as photogrammetry, animated displays, and enhanced interoperability. Jupiter, the Microsoft Windows compliant, 3-D design system unveiled by Intergraph, is arguably the most dramatic new product introduced in the field. Jupiter will, in practice, lead to CAD drawings that can smoothly convey **information** such as component dimensions or **bills** of materials without the necessity of reformatting into other **programs**. The latest example of CADCentre animated "walk-through" displays is a Review Reality gallery. This allows the user to be enveloped by a wrap-around screen that provides a dramatic visualization of a design.

Descriptors: Computer aided design--Chemical engineering use; Chemical engineering software ;

14/5/16 (Item 1 from file: 474) **Links**
New York Times Abs

07716456 **NYT Sequence Number:** 832189991007
NEWS WATCH: A BOOK THAT TEACHES CHILDREN HOW TO READ
New York Times , Col. 4 , Pg. 3 , Sec. G
Thursday October 7 1999
Document Type: Newspaper **Journal Code:** NYT **Language:** English **Record Type:** Abstract

Abstract:
Leap Frog, educational toy company, Emeryville, Calif, offers Leap Pad, learn-to-read tool for children 4 and older; product resembles an iBook laptop computer that when used with **electronic pen** becomes interactive storybook; Leap Frog is available in two versions; basic, which costs about $60, and deluxe, about $90 (S)
Company Names: Leap Frog Inc
Descriptors: Reading and Writing Skills; Children and Youth; **Computers** and the Internet; Prices (Fares, **Fees** and Rates)

B. NPL Files, Full-text

[File 625] **American Banker Publications** 1981-2008/Jun 26

**File 625: This file no longer updates. Use Newsroom Files 989 and 990 for current records.*

[File 268] **Banking Info Source** 1981-2009/May W1

[File 626] **Bond Buyer Full Text** 1981-2008/Jul 07

**File 626: This file no longer updates. Use Newsroom Files 989 and 990 for current records.*

[File 267] **Finance & Banking Newsletters** 2008/Sep 29

**File 267: This file not longer updates. Last update to file September 2008.*

[File 608] **MCT Information Svc.** 1992-2009/May 13

[File 15] **ABI/Inform(R)** 1971-2009/May 12

[File 16] **Gale Group PROMT(R)** 1990-2009/Apr 22

**File 16: UD/banner does not reflect last processed date*

[File 148] **Gale Group Trade & Industry DB** 1976-2009/Apr 29

**File 148: The CURRENT feature is not working in File 148. See HELP NEWS148.*

[File 160] **Gale Group PROMT(R)** 1972-1989

[File 275] **Gale Group Computer DB(TM)** 1983-2009/Apr 17

[File 621] **Gale Group New Prod.Annou.(R)** 1985-2009/Apr 08
(c) 2009 Gale/Cengage. All rights reserved.

[File 9] **Business & Industry(R)** Jul/1994-2009/May 12
(c) 2009 Gale/Cengage. All rights reserved.

[File 20] **Dialog Global Reporter** 1997-2009/May 13
(c) 2009 Dialog. All rights reserved.

[File 610] **Business Wire** 1999-2009/May 13
(c) 2009 Business Wire. All rights reserved.
**File 610: File 610 now contains data from 3/99 forward. Archive data (1986-2/99) is available in File 810.*

[File 613] **PR Newswire** 1999-2009/May 13
(c) 2009 PR Newswire Association Inc. All rights reserved.
**File 613: File 613 now contains data from 5/99 forward. Archive data (1987-4/99) is available in File 813.*

[File 624] **McGraw-Hill Publications** 1985-2009/May 13
(c) 2009 McGraw-Hill Co. Inc. All rights reserved.

[File 636] **Gale Group Newsletter DB(TM)** 1987-2009/Apr 22
(c) 2009 Gale/Cengage. All rights reserved.

[File 634] **San Jose Mercury** Jun 1985-2009/May 12
(c) 2009 San Jose Mercury News. All rights reserved.

[File 810] **Business Wire** 1986-1999/Feb 28
(c) 1999 Business Wire . All rights reserved.

[File 813] **PR Newswire** 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc. All rights reserved.

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 ; d s
Set     Items   Description
S1      12440   S (AUTOMAT?? OR COMPUTERI? OR DIGITAL? OR ELECTRONIC
OR LIGHT OR IMAGING OR OPTICAL?? OR NETPAGE OR SENSOR? ? OR
SPECIAL()PURPOSE OR PHOTODIODE OR SENSING OR SCAN? ? OR
SCANN??)()(PEN OR STYLUS OR WRITING OR WRITER OR MARKER? ? OR NIB OR
NIBS OR PENCIL? ? OR STYLOGRAPH? ?)
S2       2308   S (CAPTUR??? OR RECORD??? OR COLLECT??? OR SAMPL???
OR RELATIONSHIP OR RELATIVE OR TRACK??? OR CALCULAT??? OR
TRIANGULAT??? OR MEASUR??? OR COMPUTE OR COMPUTES OR DETERMIN??? OR
CONVERT??? OR TRANSFORM??? OR AXIS) (10N) (MOVEMENT? ? OR POSITION? ?
OR LOCATION? ? OR SPATIAL?? OR STROKE? ? OR HANDWRITING OR WRITING OR
WRITE? ? OR MOTION? ? OR EVENT? ? OR ORIENTATION? ? OR ORIENTAT??? OR
ALIGNMENT OR ANGLE OR ALIGN??)
S3       1183   S DIGITAL()INK OR INKING OR DIGITIZER? ? OR
ELECTROMAGNETIC
S4       1083   S (INKML OR DATA OR INFORMATION OR LABEL OR LABELS OR
LABELL??? OR TAG OR TAGS OR TAGG??? OR MARK??? OR MARKINGS OR CODE OR
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CODES OR BARCODE? ? OR (HUMAN OR MACHINE)()READABLE OR FORM? ? OR
DOCUMENT? ? OR TEMPLATE? ? OR CHARACTER? ? OR PARAMETER? ? OR FIELD?
? OR IDENTIFIER? ?) (10N) (FEE OR FEES OR BILL??? OR INVOIC??? OR
CHARG??? OR INVOICE OR INVOICES OR PAYMENT OR PAYMENTS OR REMIT OR
REMITS OR REMITT? OR RENUMERAT??? OR REMUNERAT???)
S5       1502   S (SCREEN? ? OR WINDOW? ? OR MONITOR? ? OR DISPLAY???
OR TOUCHSCREEN? ? OR CHARACTER? ? OR SYSTEM? ? OR PROGRAM? ? OR
APPLICATION? ? OR SOFTWARE OR COMPUTER? OR AUTOMAT? OR ELECTRONIC?)
(10N) (FEE OR FEES OR BILL??? OR INVOIC??? OR CHARG??? OR INVOICE OR
INVOICES OR PAYMENT OR PAYMENTS OR REMIT OR REMITS OR REMITT? OR
RENUMERAT??? OR REMUNERAT??? OR SETTLEMENT OR SETTL??? OR
PRESENTMENT)
S6          0   S AU=(SILVERBROOK, K? OR SILVERBROOK K? OR
SILVERBROOK (1N) (K OR KIA) OR LAPSTUN, P? OR LAPSTUN P? OR LAPSTUN
(1N) (P OR PAUL) OR WALMSLEY, S? OR WALMSLEY S? OR WALMSLEY (1N) (S
OR SIMON) OR LAPSTUN, J? OR LAPSTUN J? OR LAPSTUN (1N) (J OR
JACQUELINE))
S7       1560   S S1 (S) (S2 OR S3)
S8         27   S S7 (S) (S4 OR S5)
S9          9   S S8 NOT PY>2000
S10         7   RD  (unique items)
S11        43   S S7 (S) (FEE OR FEES OR BILL??? OR INVOIC??? OR
CHARG??? OR INVOICE OR INVOICES OR PAYMENT OR PAYMENTS OR REMIT OR
REMITS OR REMITT? OR RENUMERAT??? OR REMUNERAT???)
S12        37   S S11 NOT S10
S13         6   S S12 NOT PY>2000
S14         4   RD  (unique items)
S15         4   RD  (unique items)
```

10/3,K/1 (Item 1 from file: 267) **Links**
Finance & Banking Newsletters

04535149
Education, training and Development prepares for future

Hallie Forcinio
Corporate University Review
June 1,1998 **Document Type:** NEWSLETTER
Publisher: SECURITIES DATA PUBLISHING
Language: ENGLISH **Word Count:** 2814 **Record Type:** FULLTEXT

Text:

```
...the FTDC complex now includes 45 classrooms. Each is equipped with an
```

overhead projector, video **recorder** and TV monitor, modem connection and in-house phone. **Motion**-sensitive light sensors automatically turn off lights in empty rooms to conserve energy.

An almost...components such as personal computers, electronic overhead projectors, laser disk players, professional tape players, an **electronic writing** tablet for annotation and an interactive audience voice and data system.

Although only three MIP...this input, each employee formulates a personal training plan for the year. Attendance at a **program** requires management concurrence, and its cost is **charged** back to his or her group. There's a "money-back" guarantee if the course...

10/3,K/2 (Item 1 from file: 15) **Links**
ABI/Inform(R)

01198796 98-48191
New US law brings down internal barriers

Shankar, Bhawani
Telecommunications (International Edition) v30n3 pp: 21-22
Mar 1996
ISSN: 0040-2494 **Journal Code:** TIE
Word Count: 978
Text:

...a new era of communications, president Bill Clinton used several regular pens to sign the **bill**; then signed it again in **"digital ink"** with an **electronic pen**, writing on a touch-sensitive screen.

"Today, with the stroke of a pen, our laws...

10/3,K/5 (Item 1 from file: 148) **Links**
Gale Group Trade & Industry DB

07299649 **Supplier Number:** 16064130 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Digital toons: computer graphics companies try convincing animators and studios to go digital with systems ranging from the predictable to the radical.

Robertson, Barbara
Computer Graphics World , v17 , n6 , p40(5)
June , 1994
ISSN: 0271-4159
Language: ENGLISH
Record Type: FULLTEXT; ABSTRACT
Word Count: 2406 **Line Count:** 00190

...the resulting shapes can be automatically colored. However, final images are composited with the original **scanned pencil** drawing. The software runs on SGI machines and will be priced around $10,000.
On...

10/3,K/6 (Item 1 from file: 636) **Links**
Gale Group Newsletter DB(TM)

02546013 **Supplier Number:** 45134318 **(USE FORMAT 7 FOR FULLTEXT)**

OCE ANNOUNCES THE NEW 9500-5 SERIES OF MULTIFUNCTIONAL DIGITAL PLAIN PAPER PLOTTER/COPIERS
M2 Presswire , p N/A
Nov 14 , 1994
Language: English **Record Type:** Fulltext
Document Type: Newswire ; Trade
Word Count: 1019
-

...Oce produces and markets state-of-the-art CAD/CAM and Graphics peripherals including direct **imaging**, **pen** and laser plotters, colour printers, monitors, scanners, and **digitizers**. Graphics' factory is ISO 9002 certified by AFAQ and was rated 'Class A; by Cabinet **Bill** Belt for its excellence in manufacturing management. For more **information** on these or other products in Oce

10/3,K/7 (Item 1 from file: 813) **Links**
PR Newswire

0383714 SFFNS1
NEW TRIMBLE GPS SYSTEM MAPS THE WAY TO MORE COST-EFFECTIVE AND ACCURATE RESOURCE MANAGEMENT

Date: July 9, 1991 07:35 EDT **Word Count:** 1,092

Correction:

...at a given point, thereby removing the necessity for extensive hand-written field notes to **record** complete feature, attribute and **position** data.

The data files **collected** by the Pathfinder Professional system

provide a very efficient and accurate means of updating GIS...
...1.3 billion were recorded in 1989 and this figure is expected to reach $4 **billion** by mid-decade.

The Pathfinder Professional **system** includes a six-channel GPS receiver, Pathfinder 2.0 software, a choice of Omnidata Polycorder...

15/3,K/1 (Item 1 from file: 16) **Links**
Gale Group PROMT(R)

06508895 **Supplier Number:** 55237996 **(USE FORMAT 7 FOR FULLTEXT)**

Favored SCALPEL's continued progress.(scattering with angular limitation projection electron-beam lithography)
Harriott, Lloyd; Waskiewicz, Warren; Novembre, Anthony; Liddle, J. Alexander
Solid State Technology , v 42 , n 7 , p 73(7)
July , 1999
Language: English **Record Type:** Fulltext
Document Type: Magazine/Journal; Refereed ; Trade
Word Count: 3568
-

...four 300mm wafers/hr down to the 50nm technology generation.
Stage technology
The step-and-**scan writing** strategy is similar to that used in the optical Micrascan system, except that the mask...

...wafer stage positions do not need to be controlled accurately, just known very accurately. Stage **positions** are monitored by laser interferometry, and any **relative** positional error between stages is corrected by an electrostatic image deflector, an option only available with **charged**-particle techniques.
Alignment, overlay
The image deflector is also the key component in the fine...

15/3,K/2 (Item 2 from file: 16) **Links**
Gale Group PROMT(R)

03708907 **Supplier Number:** 45253135 **(USE FORMAT 7 FOR FULLTEXT)**

Scriptel creates wireless group
Electronic Engineering Times , p 27
Jan 9 , 1995
Language: English **Record Type:** Fulltext
Document Type: Magazine/Journal ; Trade

Word Count: 99
Supplier Number: (USE FORMAT 7 FOR FULLTEXT)

Text:

Columbus, Ohio - Scriptel Corp., the **digital pen** and touch-screen-input subsidiary of Scriptel Holding Inc., has created the Scriptel Communications division. It will be **charged** with developing and marketing wireless - communication products based on the WriteTouch **digitizer** technology introduced in November by Scriptel and NCR Microelectronics.

15/3,K/3 (Item 1 from file: 20) **Links**
Dialog Global Reporter

10583756 **(USE FORMAT 7 OR 9 FOR FULLTEXT)**
2000 Detroit Music Award Winners Announced

PR NEWSWIRE
April 14, 2000
Journal Code: WPRW **Language:** English **Record Type:** FULLTEXT
Word Count: 914
(USE FORMAT 7 OR 9 FOR FULLTEXT)

...Outstanding Electronic Recording * Outstanding Electronic Artist Innerzone Orchestra "Programmed" Richie Hawtin * Outstanding Electronic DJ * Outstanding **Electronic Writer**/Producer DJ Bone Carl Craig JAZZ * Outstanding Jazz **Recording** * Outstanding Jazz Traditional George Benson "Sax Master" George Benson * Outstanding Jazz Modern * Outstanding Big Band...

...World Artist The Articles Immigrant Suns * Outstanding World Vocalist * Outstanding World Instrumentalist Jonathon Pettus - Immunity **Bill** Koggenhop (bass) - Immunity * Outstanding World **Writer** John Arnold BLUES/RHYTHM & BLUES * Outstanding Blues **Recording** * Outstanding Blues Artist Johnny Bassett "Party My Blues Away" Johnny Bassett & Blues Insurgents * Outstanding Rhythm...

...Country Vocalist * Outstanding Country Instrumentalist Scott Forbes - Forbes Brothers Dennis Forbes - Forbes Brothers * Outstanding Country **Writer** * Outstanding Country Artist Forbes Brothers Forbes Brothers * Outstanding Country **Recording** The Volebeats "Solitude" GOSPEL/CHRISTIAN * Outstanding Gospel Recording - *TIE* * Outstanding Gospel Choir CeCe Winans "Alabaster...

...Artist * Outstanding Contemporary Christian CeCe Winans Artist Winans

Phase II * Outstanding Gospel Instrumentalist * Outstanding Gospel **Writer** Tim Bowman Fred Hammond CLASSICAL * Outstanding Classical **Recording** * Outstanding Community Orchestra DSO "Ellington & the Modern Birmingham Bloomfield Symphony Masters" * Outstanding Classical Ensemble * Outstanding...

15/3,K/4 (Item 1 from file: 636) **Links**
Gale Group Newsletter DB(TM)

03432339 **Supplier Number:** 47070301 **(USE FORMAT 7 FOR FULLTEXT)**

Paperless Signature: PenOp adds secure handwritten signatures to Microsoft Word
EDGE: Work-Group Computing Report , p N/A
Jan 27 , 1997
Language: English **Record Type:** Fulltext
Document Type: Newsletter ; Trade
Word Count: 504
Supplier Number: (USE FORMAT 7 FOR FULLTEXT)

Text:

...have the capability to directly sign electronic documents legally and securely using a low-cost **digital pen** and **digitizer** linked to their personal computer. Using a combination of biometrics and cryptography, PenOp creates a...

...check that their associated documents have not been altered since signing is available free-of-**charge** at the PenOp Web site (http://www.penop.com). To sign documents, a PenOp/Sign...

...a price of $100 per CPU. PenOp/Sign supports a variety of off-the-shelf **digitizers**, and can be shared by other PenOp document components, including plug-ins for Netscape Navigator and Adobe Acrobat Exchange, which are also available free-of-**charge** at the PenOp Web site. A signature verification option, PenOp/Verify, is also available at...
...a privately held software company. PenOp software enables legal execution of electronic documents. The software **captures** the signing **event** using an inexpensive **digitizer** and links it to the electronic document creating a record designed to be the legal...

V. Additional Resources Searched

Financial Times FullText (via ProQuest)

Internet & Personal Computing Abstracts (via EBSCOhost):

```
Search ID# Search Terms Search Options Last Run Via Results
S7 (digital ink) and (S4 and S6) Search modes - Boolean/Phrase   Interface
- EBSCOhost
Search Screen - Advanced Search
Database - Internet and Personal Computing Abstracts 7
S6 digital ink Search modes - Boolean/Phrase   Interface - EBSCOhost
Search Screen - Advanced Search
Database - Internet and Personal Computing Abstracts 68
S5 digital pen or SU PEN-based computers or electronic pen or imaging pen
or netpage pen and "digital ink" Search modes - Boolean/Phrase   Interface
- EBSCOhost
Search Screen - Advanced Search
Database - Internet and Personal Computing Abstracts 721
S4 digital pen or SU PEN-based computers or electronic pen or imaging pen
or netpage pen and digital ink Search modes - Boolean/Phrase   Interface -
EBSCOhost
Search Screen - Advanced Search
Database - Internet and Personal Computing Abstracts 721
S3 digital pen or SU PEN-based computers Search modes - Boolean/Phrase
Interface - EBSCOhost
Search Screen - Advanced Search
Database - Internet and Personal Computing Abstracts 689
S2 digital pen Search modes - Boolean/Phrase   Interface - EBSCOhost
Search Screen - Advanced Search
Database - Internet and Personal Computing Abstracts 11
S1 digital pen Search modes - Boolean/Phrase   Interface - EBSCOhost
Search Screen - Advanced Search
Database - Internet and Personal Computing Abstracts 82
```